HILETIC

XXXII, No. 9

MAY, 1952

THE LIBRARY OF THE

MAY 1 9 1952

UNIVERSITY OF ILLINOIS

SPRINTING

Familia Rawlings Familia Rawlings

Famous indeed
... The Rawlings R5
is the ball of the
season every season.
Passers depend on
the minimum legal short
circumference, and the new
waterproof lace for throwing
"strikes"... kickers are assured
precision balance and perfect
shaping for the best kicking
ball in the game... ball carriers
take to the new non-slip, sure-grip
surface. Famous Favorite?
History records the R5 records.

THERE IS NO SUBSTITUTE FOR THE "KNOW-HOW" BUILT INTO EVERY R5 FOOTBALL!

The Rawlings R5 is the result of 54 years of improving the leather football. Improvement after improvement has been made until the R5 Football is today the finest that can be made.

RAWLINGS MANUFACTURING CO.

"The Finest In The Field"

ST. LOUIS 3, MO.



Published by

THE ATHLETIC JOURNAL PUBLISHING CO. 6858 Glenwood Avenue Chicago 26, Illinois

MAJOR JOHN L. GRIFFITH
Founder

JOHN L. GRIFFITH
Publisher and Editor
M. M. ARNS
Associate Editor
BILL GLASER

Art Editor INFORMATION EDITORS

1951-1952

FOOTBALL
Charles "Bud" Wilkinson, University of Oklahoma
Jeff West, Cairo, Georgia, High School
SIX-MAN FOOTBALL

M. L. Rafferty, Jr., Big Bear Lake, Cal. High School

BASKETBALL Howard Hobson, Yale University John A. Grayson, Springfield, Missouri High School

BASEBALL
Dan Jessee, Trinity College
James Smilgoff, Taft High School, Chicago

TRACK
Clyde Littlefield, University of Texas
SWIMMING

Richard O. Papenguth, Purdue University WRESTLING Art Griffith, Oklahoma A. & M. College

BOXING John J. Walsh, University of Wisconsin

GOLF
Les Bolstad, University of Minnesota

HOCKEY
Westcott E. S. Moulton, Brown University

SOCCER
George D. Ritchie, Wethersfield, Connecticut

High School
GYMNASTICS
Newton C. Loken, University of Michigan

PHYSICAL EDUCATION
William L. Hughes, Temple University
FENCING

Irving De Koff, City College of New York
TENNIS

William Murphy, University of Michigan



Eastern Advertising Representative:

Charles Thorp, 370 Lexington Avenue, New York City

Published monthly except July and August by the Atletic Journal Publishing Company, 6858 Glenwood Avenue, Chicago, Illinois. Member Audit Bureau of Circulations. Request for change of address must reach us thirty days before the darte of issue with which it is to take effect. Duplicate copies cannobe sent to replace those undelivered through failure to send advance notice.

to send advance notice.

Sabscription Prices: \$2.00 per year; \$3.00 for two years; \$3.75 for three years; \$1.20 for six months; \$1.00 for five months; Canada \$2.50 per year; foreign \$2.75 per year. Single copies 25 cents for current volumes 35 cents per copy for back volumes. Copyright 1952. The Athletic Journal Publishing Company. Entered a second-clase matter, August 14, 1925 at the post office at Chicago, Illinois under the Act of March 3, 1879; additional entry at Rochelle, Illinois.

"ATHLETIC JOURNAL

Nation-Wide Amateur Athletics

Volume XXXII

Number 9

house

ngers he BE of Rai

Vhen R

thletic

seful li

ut, afte

where n

quipme

etter p

At the B

ne skil

nachine

line of

hat's wolleges, avy te Raleigh.

Have

MAY, 1952

6 FOOTBALL ARTICLES	
SPOT MARKING TO PERFECT TIMING	_14
James A Perry	
FOILING THE FOUR-MAN LINE	
ALT DATE ITELET	16
OUR ANSWER TO CHANGING DEFENSES	17
Marty Fischbein	1/
PROBLEMS IN COACHING PREPARATORY	
SCHOOLS	22
John L. Maddox	0.4
THE SIX-MAN OPTIONAL SPREAD	24
Andrew W. Grieve MICHIGAN SYSTEM FROM THE	
BALANCED LINE	28
Frank Waters	
2 TRACK ARTICLES	
SPRINTING	6
Frank Hill	90
OLYMPIC PROSPECTS	38
2 GOLF ARTICLES	
THE SHORT GAME IN GOLF-PUTTING	19
Lloyd Mangrum	1 69
GOLF IN THE SMALL HIGH SCHOOL	42
Charles E. Anderson	
1 ARTICLE ON PHYSICAL EDUCATION	
SEQUOIA HIGH SCHOOL — THIRTY-ONE	
YEARS OF PHYSICAL EDUCATION ACHIEVEMENT	10
ACHIEVEMENT	10
1 ARTICLE ON GYMNASTICS	
JUDGING GYMNASTIC MEETS	20
Newton Loken and Paul Hunsicker	
1 TENNIS ARTICLE	
A UNIQUE TYPE OF CHAMPIONSHIP -	
	26
W. Hughes Davis	
1 BASEBALL ARTICLE	0.4
THE STANFORD PITCHING CHART	34
1 TRAINING ARTICLE	
- TRACTION WITH HEAT FOR NECK	
	44
J. Blaine Rideout	
4 FEATURES	
FROM HERE AND THERE	-
EDITORIAL	18
	_32
BUYERS GUIDE	63

FRONT COVER ILLUSTRATION

pages 6-9.

James Golliday of Northwestern, believed by many to be heir apparent to the title "World's Fastest Human," is pictured on the cover. Golliday's form is analyzed by means of the Athletic Journal's high speed camera and veteran coach, Frank Hill. See



When It's

RALEIGH REBUILT

YOUR FOOTBALL EQUIPMENT

HAS A DOUBLED LIFE ...

BEFORE



housands of Athletic Direcors, Coaches, Team Managers and Players Acclaim he BEFORE and AFTER Story of Raleigh

QUALITY RECONDITIONING

When Raleigh factory-REBUILDS your thletic equipment it gives you a second seful life! Raleigh rebuilds it inside and ut, after it is first thoroughly inspected, leaned and sterilized. New parts are used where necessary and the fully rebuilt quipment comes to you like new...for etter play...longer...at lower cost.

It the Raleigh factory we use the same ine skills, long experience and modern nachines that make the Raleigh Quality Line of New Sports Equipment famous! hat's why the country's leading schools, olleges, professional teams, army and any teams send their equipment to kaleigh. You'll get a doubled life out of our original equipment investment.

It Pays to Have Raleigh Rebuild it!"















RECONDITIONING DIVISION

Send us ALL your football equipment for RECONDITIONING.
You'll be delighted with the "miracles" we can dol

Athletic Equipment Corp., New Rochelle, N. Y.

Raleigh

RALEIGH REBUILDS EVERYTHING















Easy and Quick To Erect and Take Down

This new Hussey Model 8 Grandstand gives you all the advantages and comfort of modern grandstand construction, yet incorporates the exclusive patented features that have made Hussey portable seating the leader in the field.

Hussey stands meet every safety requirement, last indefinitely, can be erected or taken down faster and easier and stored in a smaller space than any other stand on the market. No skilled help is needed. The same stand can be used indoors and out, is available in sections and tiers to meet your needs, and is low in cost. Hussey Portables will solve your seating problems.



Hussey Installations at Pottingill Park, Auburn, Mo., and Univ. of N.H., Durham, N.H.

FREE CATALOGS ON REQUEST

HUSSEY MFG. CO., INC.
524 Railroad Ave., N. Berwick, Maine

from here and there

FTER 29 years of coaching basket-A ball Sam Storby will retire. Storby started his coaching career in South Dakota. After coaching in South Dakota and Iowa high schools, he went to Quincy, Illinois where his 1934 team won the state championship. During the next 13 years Storby was at Proviso High School in Maywood, winning three Suburban League championships. For the past four years he has been coach at George Williams College . . . Coach "Frosty England's Arkansas State College football team of last fall was the nation's highest scoring college team. In addition, they were ranked second among the smaller colleges for defense. Very rarely does a team hold such a high rank in both offense and defense . . . Iowa State, Drake, Grinnell, and Iowa Teachers recently engaged in a unique type of tennis tournament. Each school entered five singles players and two doubles teams, each singles player and doubles team being ranked. Then all of the number one men played a round robin among themselves. The match consisted of ten games, and individual and team standings were determined by the number of games won. The same policy was followed in each of the singles ranks as well as in the doubles ranks. Four hundred twenty games were played . . . While it is true that coaching is a precarious profession, there are exceptions. Notable examples may be found at N.Y.U. where Emil Von Elling is serving his 39th year as track coach; Bill McCarthy follows with 31 years as baseball coach; and Howard Cann has just concluded his 29th year as basketball coach.

SEVERAL years ago Norm Wasser of Illinois won his second successive Drake Relays shot put championship. When Pepsi Cola decided to sponsor the Drake Relays' film they picked Wasser from their national sales staff to direct this endeavor... There have been many outstanding instances of sports reporting, but for the one displaying the most candor we select the report of a San Francisco sports writer in covering the National

Collegiate track meet at Berkeley a number of years back. His report went on to say that U.S.C. won the meet with 78 points; Ohio State was second with 40 1/6 points garnered off of four firsts by Jesse Owens, and a six-way tie for sixth place in the pole vault, which proves, he stated, that a team needs two Jesse Owens or 469 pole vaulters to beat U.S.C. . . . During the course of time Michigan has had 25 All-Americans divided almost exactly as the proportion of linemen to backfield men would indicate. Sixty-two and one-half per cent of these All-Americans have been linemen. Occasionally we hear that athletics and scholarships do not go hand in hand, but how about the basketball squad of Alamo Heights High School of San Antonio, Texas which won the Texas tournament? Eight of the twelve members of the squad are on the honor roll regularly. .

ENE STAUBER, freshman coach Gand varsity scout last year for Michigan, is the new assistant coach at Stetson University. Stauber served with his new head coach, Joe Mc-Mullen, at Toledo University in 1949 ... Forty per cent of the New York state high schools play soccer . . . A combination of six men won ten relay championships for Texas in the 1935 and 1936 seasons. Of that number only one, Beverly Rockhold, remained in coaching. Rockhold is track coach at Baytown, Texas, High School . . . Ward Cuff, former New York Giants football star, is the latest coach to step from scholastic to collegiate circles. Cuff leaves a tremendous record of 25 victories against only three defeats at Catholic High School of Green Bay, Wisconsin to join the Oregon State staff as backfield coach . . . Out of 123 out for spring sports at Duke only 14 are from the state of North Carolina. Golf leads with 30 per cent of the squad being from the state; baseball finds only one of a squad of 27 from North Carolina . . . Denver University's new field house presented a major problem in transportation. When the navy base at Farragut, Idaho was deactivated the huge drill hall was disassembled, moved to Denver, and reconstructed.

• Whe

sible, 1

Purdue

tion. T

for the

to offer

to erec

Anothe

that, b

structu

MANEAPOI

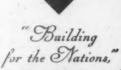
4



• When stadium construction is again permissible, more and more institutions will, like Purdue University, specify steel deck construction. The steel deck construction used here for the stadium addition has many advantages to offer projects like this. It costs less per seat to erect . . . and goes up in a very short time. Another feature of this type of construction is that, because it requires less supporting understructure, it makes available a valuable area of

weatherproof space underneath the deck.

This project is an excellent example of the versatility of American Bridge's facilities . . . of its ability to handle all types of construction from comparatively small jobs like this to fabricating and erecting the steel framework for structures like the United Nations' Secretariat, Meeting Halls and General Assembly Buildings. Whatever the project, you will find it pays to call American Bridge.



a 16 mm sound film in color, 35 minutes long, describing fabrication and erection of the UN Secretariat Building, is available without charge upon request from clubs, churches, schools and industry.

AMERICAN BRIDGE DIVISION, UNITED STATES STEEL COMPANY, GENERAL OFFICES: 525 WILLIAM PENN PLACE, PITTSBURGH, PA.

CONTROCTING OFFICES IN: AMBRIDGE - ATLANTA - BALTIMORE - BIRMINGHAM - BOSTON - CHICAGO - CINCINNATI - CLEVELAND - DALLAS - DENVER - DETROIT - DULUTH - ELMIRA - GARY - MEMPHIS
MINNEAPOLIS - NEW YORK - PHILADELPHIA - PITTSBURGH - PORTLAND, ORE. - ROANOKE - ST. LOUIS - SAN FRANCISCO - TRENTON UNITED STATES STEEL EXPORT COMPANY, NEW YORK



ts

ep.

of ts

n

n

at

ce

h

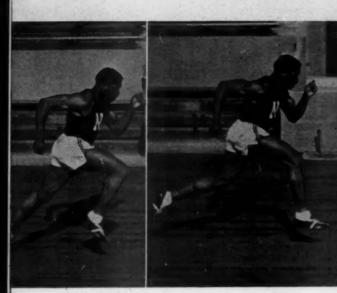
at

er

n.

a-11

AMERICAN BRIDGE







corr

H

II

trat

cou

to o

thin

is t

wid

adv

hear

I

a go day

shifted forward over his arms as the "set" position is taken. This is a close approach to a "bunch" start with the feet close together and the buttocks high.

In Illustration 3 the drive off the left foot is started.

Illustrations 4-10 show Golliday's right arm jerked backward, his left arm swings forward and up.

In Illustrations 5-10 it will be noticed that Golliday's body maintains a position parallel to the track. This indicates the power of his drive off the blocks.

Illustration 8 shows good arm action and the final phase of the

FRANK HILL, dean of the Big Ten track coaches, will retire in June after thirty-two years as coach of Northwestern's track team. During his thirty-two years at Northwestern he produced champions in every event on the track program. Among Hill's stars are Alvo Martin who won the Big Ten and National Collegiate half-mile championships in 1926; Royal Bouschor, winner of the Big Ten pole vault title in 1925; Bill Porter, winner of the 1948 Olympic hurdles championship; and Jim Golliday, (pictured here), who holds the United States title for the 100-meter dash, and has been selected by some as the winner of that event in this year's Olympic Games.

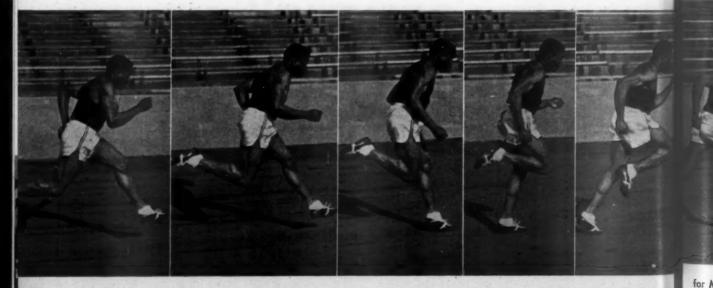
drive off the left foot. This is an especially good illustration.

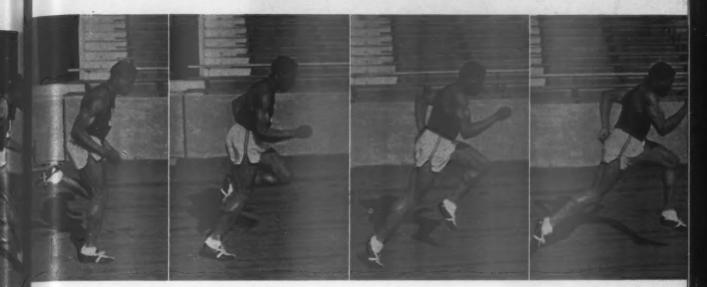
The free hip swing, angle of the knee, and the bend of the right leg are shown in Illustrations 6-10.

In Illustration 11 the right foot strikes the track, ending the first stride. Golliday's body is still parallel to the track.

The bent knee and "bunched" position of the body afford great driving power for the second stride (Illustration 12). It will be noticed, however, that Golliday's body leans too far forward here for optimum results.

In Illustration 13 Golliday





corrects the lean shown in Illustration 12.

is

of

the

ra-

ght

he

is

d"

eat

nd

rill

lli-

rd

Illustrations 14 and 15 show a good driving take-off on Golliday's second stride.

Sequence B Start—Front View

Illustrations 1-16. These illustrations show the "head-on" counterpart of the A series.

Illustrations A-8 and B-7 seem to catch the same action. One thing noticeable from this angle is that Jim runs with his feet wider apart than the textbooks advocate. This is due to his heavy thigh muscles which pre-

vent closer placing of his feet, but also provide him with much of his great driving power. The vigorous arm action and powerful "diving" start which get Jim under way are shown here. Golliday's legs have to work fast to get under him.

Sequence C View of Stride

Illustrations 1-18 show a stride study of Jim Golliday.

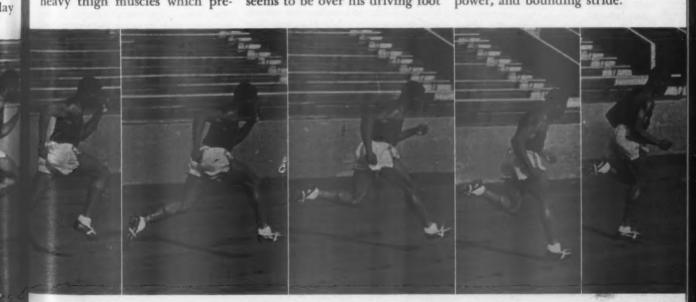
Golliday's balanced and powerful arm action and his wellmaintained body lean are shown in this series. His body weight seems to be over his driving foot at just the right moment (Illustrations 6, 12, and 13).

The relation between arm and leg action is shown beautifully in Illustrations 1, 2, and 3, and in 13, 14, and 15. Golliday's shoulder and arm swing back as his hip swings forward freely. This action results in a long, powerful, bounding stride.

Illustrations 1-13. These thirteen illustrations show different phases of only one running stride.

In Illustration 7 we see fine body lean.

Illustration 8 is an excellent picture of balanced action, power, and bounding stride.











cori

I

a go

day

I

trat

cou

to o

thin

is t

wid

adve

hear

I

shifted forward over his arms as the "set" position is taken. This is a close approach to a "bunch" start with the feet close together and the buttocks high.

In Illustration 3 the drive off the left foot is started.

Illustrations 4-10 show Golliday's right arm jerked backward, his left arm swings forward and up.

In Illustrations 5-10 it will be noticed that Golliday's body maintains a position parallel to the track. This indicates the power of his drive off the blocks.

Illustration 8 shows good arm action and the final phase of the

FRANK HILL, dean of the Big Ten track coaches, will retire in June after thirty-two years as coach of Northwestern's track team. During his thirty-two years at Northwestern he produced champions in every event on the track program. Among Hill's stars are Alvo Martin who won the Big Ten and National Collegiate half-mile championships in 1926; Royal Bouschor, winner of the Big Ten pole vault title in 1925; Bill Porter, winner of the 1948 Olympic hurdles championship; and Jim Golliday, (pictured here), who holds the United States title for the 100-meter dash, and has been selected by some as the winner of that event in this year's Olympic Games.

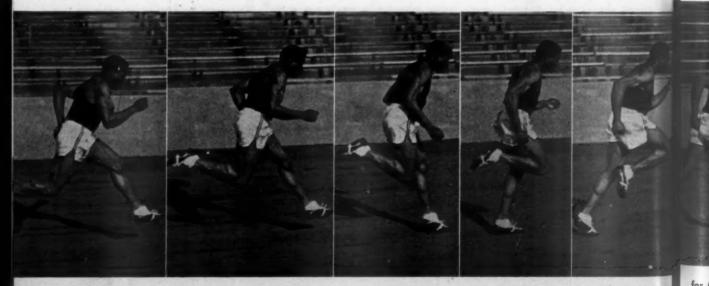
drive off the left foot. This is an especially good illustration.

The free hip swing, angle of the knee, and the bend of the right leg are shown in Illustrations 6-10.

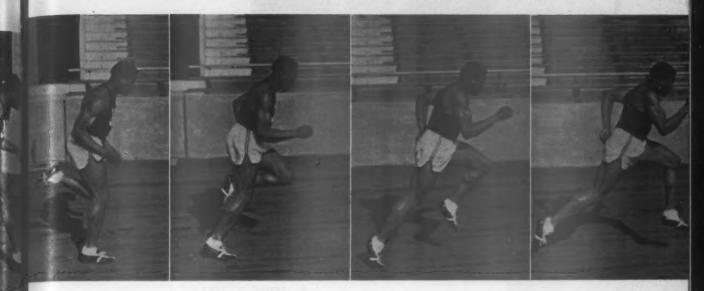
In Illustration 11 the right foot strikes the track, ending the first stride. Golliday's body is still parallel to the track.

The bent knee and "bunched" position of the body afford great driving power for the second stride (Illustration 12). It will be noticed, however, that Golliday's body leans too far forward here for optimum results.

In Illustration 13 Golliday



THE ATHLETIC JOURNAL



corrects the lean shown in Illustration 12.

Illustrations 14 and 15 show a good driving take-off on Golliday's second stride.

of

he

a-

ht

he

18

d"

at

nd

ill

li-

rd

ay

Sequence B Start—Front View

Illustrations 1-16. These illustrations show the "head-on" counterpart of the A series.

Illustrations A-8 and B-7 seem to catch the same action. One thing noticeable from this angle is that Jim runs with his feet wider apart than the textbooks advocate. This is due to his heavy thigh muscles which pre-

vent closer placing of his feet, but also provide him with much of his great driving power. The vigorous arm action and powerful "diving" start which get Jim under way are shown here. Golliday's legs have to work fast to get under him.

Sequence C View of Stride

Illustrations 1-18 show a stride study of Jim Golliday.

Golliday's balanced and powerful arm action and his wellmaintained body lean are shown in this series. His body weight seems to be over his driving foot at just the right moment (Illustrations 6, 12, and 13).

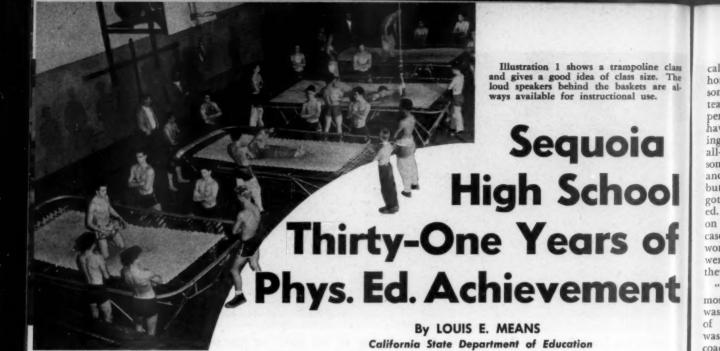
The relation between arm and leg action is shown beautifully in Illustrations 1, 2, and 3, and in 13, 14, and 15. Golliday's shoulder and arm swing back as his hip swings forward freely. This action results in a long, powerful, bounding stride.

Illustrations 1-13. These thirteen illustrations show different phases of only one running stride.

In Illustration 7 we see fine body lean.

Illustration 8 is an excellent picture of balanced action, power, and bounding stride.





URING the past decade in our Duration a great deal has been written, and a great deal has been said about ideal physical education programs for boys. For many years we have enjoyed the privilege of studying secondary school programs all over the nation. In various states many schools have created fine programs. Unfortunately what might have been attempts at good leadership in some quarters have become a source of worry and doubtful acceptance by too many secondary school administrators in the United States. No doubt this feeling is due to the growth of an aristocracy in competitive and varsity sports which has often almost completely overshadowed the broader and finer concepts for which education through the physical was conceived. It is a pleasure, under these conditions, to report one of the finest physical education programs in the country; one that is rapidly becoming a model and the envy of thousands of leaders; and one that most educators would be skeptical about until they had the privilege of watching it in action repeatedly. This is the carefully planned, and more carefully executed program for all boys at Sequoia High School, Redwood City, California. We should also mention the fine program offered at that school for girls, but the subject of this series of two articles concerns only the boys.

The director of this fine program is Frank Griffin, an alumnus of the same high school, lifelong resident of the community, and now for thirtyone years its director of physical ed-

ucation. "Griff," as he is popularly known and called by friends, teachers, and students alike, has turned down all offers of what might be termed greater opportunities for service in larger places, and in colleges, because he loves his own community and has dedicated his life to the principle that his department can make a most significant educational contribution to youth and later citizenship. This kind of thinking has never permitted him to swerve from his objective that every boy is entitled to equal and inspirational leadership through the great variety of skills and activities which form the backdrop for the moulding of character and the development of a strong and healthy body, capable of standing the stresses and strains of a modern society. Nor has he forgotten the fact that in his thirty-one years of leadership almost every generation of high school boys has been compelled to see some military service.

Over 300 personal and highly complimentary letters from boys who graduated from Sequoia High and wrote back to "Griff" thanking him for his many contributions to their preparation are mute testimony of the practicality and utility of this program through which every boy must go. In fact, many of the boys now in school are sons of former students who know the value of such a program because they received all of its values. Many of these letters refer specifically to the fact that they owe their lives to training in swimming, life saving, rope climbing, rope safety, body conditioning, and the

ability to adjust themselves to almost impossible situations because of the values received in sports competition and group activity. They all stress the fact that they stood out in every group of trainees because of their superior strength, agility, endurance, and skills. These things do not come about because of high-sounding platitudes about the values of physical education often pronounced but seldom exercised in many quarters. They come about because of a well-selected and co-ordinated staff of experts who go about the day-by-day, and year-by-year assignment of carrying out a program that does exactly what it preaches.

for

ligh

pric

tear

you

wer

not.

ligh

the

stan

neve

case

ticu

able

lives

strei

on i

of t

is no

it is

adm

who

ciliti

struc

is th

posse

plan

prod

his |

years

confl

letics

gethe

they

anced

men

shoul

in n

duran

ordin

struci

ical

for M

"T

During the war Frank Griffin visited some sixty-seven camps, bases, stations, and training centers covering seven branches of our armed forces. Here he found the youngsters products of our schools. In too many cases he found these boys lacking in the major physical factors of endurance, speed, strength, agility, and coordination. Twenty to 25 per cent were unable to swim. Strength of arm and shoulder girdle was wanting. Endurance was often negative. Speed, agility, and co-ordination left much to be desired. It was not a pretty pic-ture; yet the facts were undeniable. In discussing these points Griffin made the following comments, which are worthy of quotation here:

"Where had physical education failed? To begin, the boy who was out for the team was not required to participate in physical education otherwise, for such would be overemphasis, too wearing on these physi-

cally superior boys. Was this the honest reason? Or was the real reason the fact that the coach of the team wished these boys in a lastperiod athletic group that he might have additional time for team coaching? Boys out for teams were refused all-around training. They knew something of football, basketball, and/or other American leg sports, but all-around development was forgotten, overlooked, or totally neglected. Even worse, boys who were not on the team were, in all too many cases, practically thrust aside as unworthy of attention. A bat and ball were tossed to these outcasts and they were told to play.

Class The

al-

ause

com-

y all

it in

e of

en-

s do

nigh-

lues

pro-

t be-

ordi-

bout

r as-

gram

vis-

ases.

over-

for-

rs -

nany

ig in

dur-

d co-

cent

arm

. En-

peed,

ch to

picable.

riffin

hich

ation

s out

d to

ation

over-

hysi-

RNAL

es.

"Those who needed training the most received the least attention. It was hoped that the 'window-dressing' of athletics might hide that which was denied the rank and file. The coach was concerned with his team, for the public viewed interscholastic competition through the stern spotlight of publicity and home town pride. But what of the high percentage of boys who were not on the teams? The armed forces called all young men to defense; those who were on teams and those who were not. Then the sad story came to light. Even former team members, the naturally physically superior, standing above the boys who had never been given a chance, in many cases knew only some skill of a particular game. Football stars were unable to swim, even to save their own lives. Swimmers possessed neither the strength nor the endurance to carry on in a land emergency. The cause of this failure of physical education is not entirely the fault of the coaches, it is the natural result of inefficient administration.

The superintendent or principal who failed to provide adequate facilities; who assigned one class instructor nearly a hundred students; is the one primarily responsible. He possesses the authority, and should plan activities which would prove productive for all boys entrusted to his guidance. Yet, throughout the years there has never been any real conflict between interscholastic athletics and physical education. To-gether, each enhancing the other, they develop the physically well-bal-anced individual. The product of the men engaged in physical education should be the well-rounded boy skilled in many activities, strong in endurance, possessing agility and coordination. Our schools were constructed for all youth, and our physical education program should be for all. But if the boy is to possess these qualities opportunity must be provided for such development."

The Sequoia High School program is built around the principles stated above. Feeling that many secondary school administrators and physical educators would like to study this exemplary program, we will attempt to present both the philosophies and objectives of it, and will include the tools, devices, and procedures used at Sequoia to produce the fine results apparent there.

1. The program should be definite, interesting, varied and progressive. Continuing the prime consideration of the welfare of all of the students, and understanding the varying degree of physical and emotional differences

OUIS MEANS has had a long and notable career in athletics and physical education—a career which began in 1926 at Bluffton, Indiana, High School. In 1929-30 he served as director of athletics at Washington High School in South Bend, and for the next six years served as head coach of football, basketball, and track at East High School in Green Bay, Wisconsin. He then moved to Beloit College, serving in the same capacity for nine years. Following a period as director of physical education at the University of Nebraska he became Consultant in School Recreation for the State of California. In all of these capacities he has had occasion to study numerous physical education programs and describes here the Sequoia program which he considers the most outstanding.

in young boys, intelligent segregation is the first move. At Sequoia an annual medical examination is given all freshmen and juniors, all members of school teams, and all students whose previous records indicate need of periodic re-examination. Case histories indicative of normal fitness receive medical examination in two-year periods. These examinations certify those who may participate in regular work and those who should engage in modified work. All students placed in special physical education are required to have written statements regarding the nature and scope of activities permitted.

At Sequoia it, is believed that 13 and 14-year old children are not capable of handling work which properly challenges the abilities of those who

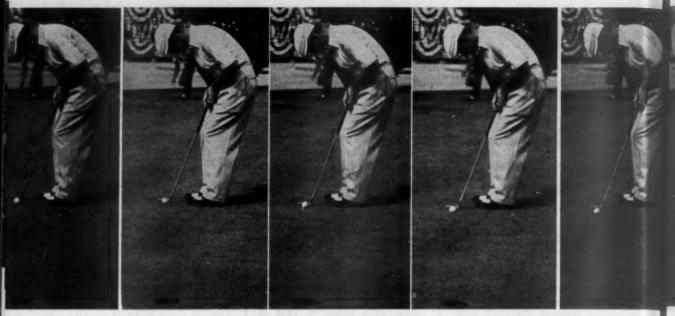
are more mature and better qualified. Elementary understanding takes into account the fact that boys of maturity and ability find neither interest nor incentive in pre-adolescent procedures. All students are classified into three groups, largely predicated on age and accomplishment, and entirely separate programs of activities are arranged for them. As the boy advances in age and accomplishment he finds work that constantly challenges his new-found abilities. At Sequoia all members of the youngest group are called "Whites," and must wear white trunks throughout their stay in that category. The intermediates are called "Reds," and wear red trunks; and the older and more advanced students are "Blues," who wear blue trunks. All classes are organized and set up on this basis, with no mixtures permitted.

2. The program should be analytical. To determine the quality of the work done, and to check on the progress of the individual, two batteries of tests have been developed; physical fitness and game skills. Over the years quartiles and medians have been determined, and charts have been prepared so that the advancement of the boy may be known. These tests provide great incentive as well as indication of advancement. They are not difficult to administer and are not monotonous. When boys try and try again to better their accomplishments; when admission to the Roll of Honor is held in high regard; when pride of performance is strong; incentives are provided which no degree of discipline may approach.

3. The program should prepare for the immediate and the future life. While considering the interests and welfare of the boy, and the building of a firm physical foundation in youth, the years of maturity should not be overlooked. Every attempt is made to implant in the youthful mind a desire for physical well-being. The boy will respond best when he knows why he is performing - when instruction includes the reason for particular work. The Sequoia program acknowledges that the activities and games of youth are not always the interests of the mature man. Nevertheless there are many physical acti-vities which may well remain with the individual throughout life and enable him to remain a participant in sports for a long time rather than become just a spectator.

Swimming is a healthful medium throughout the years. No boy is permitted to graduate from Sequoia High School unless he has the ability to

(Continued on page 52)



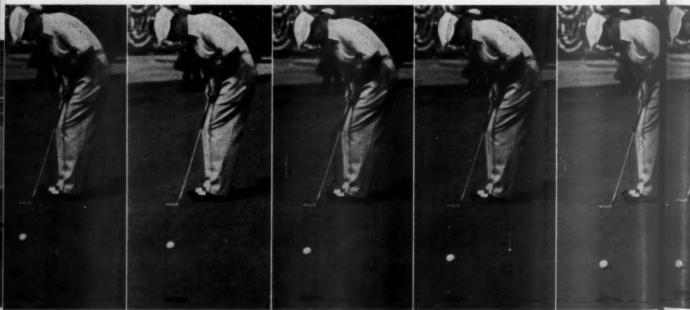
The Short Game In Golf Putting

Demonstrated by LLOYD MANGRUM

Captions by HERB GRAFFIS, Editor, Golfing and Golfdom Magazines

(Fourth in a Series)





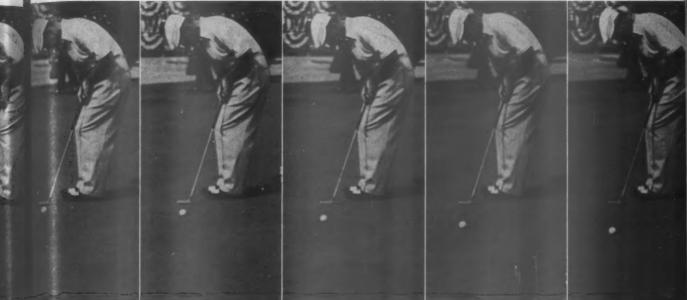
put

the L than

first

con

ena mus com



There are almost as many styles of good putting as there are good putters. Some are emphatically wrist putters, some are practically deadwristed putters, moving the club with the shoulders and body.

Lloyd Mangrum is a much better than good putter. His style shows several points that are common to all first class putters. He gets a hold of the club that, to his own make-up, gives him a sensitive feel of the club. This not only assures him delicate control of the speed of the putt but enables him to do what a good putter must do — keep the face of the club coming to and past the ball squarely on the line of the putt.

Notice how close but not cramped

Lloyd's arms and hands are to his body. There is little possibility of the hands and arms venturing out of the proper plane of precise performance.

His eyes are over the ball. That's another almost uniform feature with all good putters. Selection of a putter of the proper shaft length and lie for the build of the player is an important element in this matter of stance.

The bent knees keep Mangrum from getting tight on his putts.

The backswing in this sequence was inadvertently omitted, so the series doesn't show that Mangrum, like practically all other good putters, keeps the club low and slow going back.

Note the position of his knees at

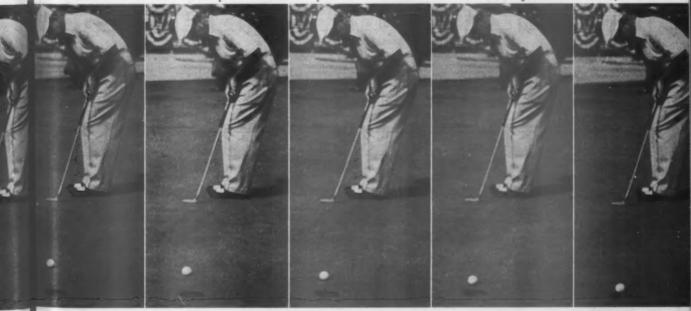
this point and as the putting action progresses. Then you'll see that Mangrum very definitely putts with his body.

His steady head keeps the entire putting action centered!

All good putters hold their heads steady and keep a bead drawn on the ball until it's well away.

See how Lloyd's hands keep the putter face precisely square to the line of putt from before the ball is contacted until the putt is dropping into the cup.

Note how the sole of the putter is perfectly horizontal to the ground. If you have the toe or heel of your putter up from horizontal you either need a new putter or a new style.



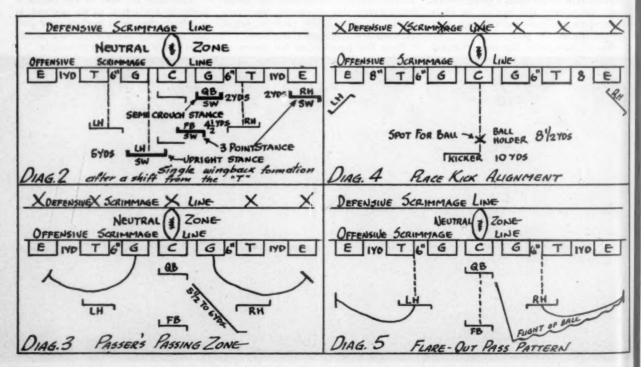
RNAL

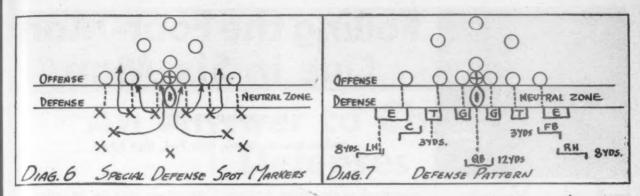


FREQUENTLY, during the early weeks of the football season the average coach is quite disturbed because of his team's indifferent performance. The record shows that his boys have lost the first game which in previous years has always been considered a breather. The following week the team carried out its assignments to a little higher degree, but the first victory of the season is still a desired goal, rather than an accomplished fact.

Fumbles by the backfield men, muffed passes by the receivers, and illegal procedures by the linemen and the backfield indicate that the team is not functioning as a properly geared grid machine. If the elementary principles of football are not mastered; deception, power, and knowledge, in most cases, are not enough to overcome this deficiency.

An analysis of the situation is started, with the assumption that the coaching staff has conscientiously devoted itself to all of the fundamentals, and meticulously prepared and carried out its daily practice schedules and sessions. Offensive and defensive game charts are studied and restudied, separate and combined meetings of the players and the coaches are held, game films are shown and examined by all concerned, and inventory sheets from the previous season are reviewed to re-evaluate the material which has been trained on the junior high, freshman and junior varsity teams. Every angle of this investigation results in the negative; and consequently, the coaching staff feels that it is searching for an invisible, but nevertheless, deteriorating element.





In many cases, the team's deficiencies are never discovered and corrected unless the alignment of the linemen and backfield men is watched closely. It is an established fact that good timing is the essence of a sound football offense and defense. A quarterback in the T formation who has not mastered his various pivot steps, or the defensive linebacker who has not learned to restrain himself from an early commitment as to his movements, is likely to play havoc with the entire pattern of the team. It is the opinion of a number of coaches that proper timing is never accomplished without proper individual player alignment.

One method, and it is not to be assumed that it is the only one, is to use what is termed "the spot marking system." We put this system into

practice recently.

game

ed, sep-

of the

e held,

amined

ventory

son are

naterial

he jun-

varsity

vestiga-

nd con-

eels that

ole, but

ment.

E

OURNAL

Designated areas on the practice field should be assigned and used by various offensive and defensive groups of players. These zones should be drawn up with a field-marking substance which is not injurious to either the eyes or the skin.

Spot markings should be placed in proper relation to the distance the coach wants the backfield men to be stationed from the line of scrimmage. In addition, if specified stances are preferred for the backs, markings pertaining to the proper alignment of the feet should be used. For example,

if the halfbacks in the regular T formation are required to stagger their inside foot to expedite particular footwork, in an attempt to attain a position which makes it possible for the quarterback to exchange the ball quickly and flawlessly, then small adjoining lines can be used (Diagram

Guesswork should not be the determining factor when laying out the field with spot markings. If the single wingback system is the type of

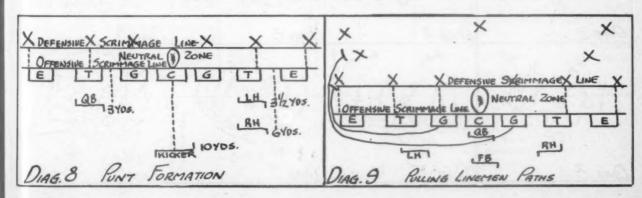
JAMES A. PERRY learned his football under Stu Holcomb of Findlay College. Following graduation, he coached at St. Ignatius High School in Cleveland before going to Lincoln Park. This is the fifth article that Perry has prepared for us. The previous four dealt with phases of line play.

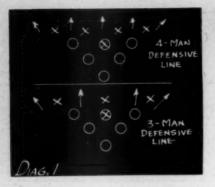
offense to be employed, the spots to be marked should be definitely established only after the correct measurements have been made with a rule or tape. If the tailback's position is to be five yards from the line of scrimmage, as it is in some single offenses, the markers should be carefully placed not only in depth, but also in proper alignment, such as, behind the guard or directly behind the seam between the center and the guard to the strong side (Diagram 2).

Other spot markings may be employed to perfect proper spacing and timing in regard to a passer's designated passing zone, (Diagram 3); place kicking position, (Diagram 4); passing patterns, (Diagram 5); special defenses, (Diagram 6); entire team defensive placement, (Diagram 7); the punt formation, (Diagram 8); and the paths of linemen who must pull out on various plays, (Diagram

A coach may work out and diagram on his practice field any patterns and fundamentals that he feels are necessary to meet his personal needs. In the event inclement weather makes it necessary for the team to practice in the gymnasium, the appropriate markers can be made on the floor with chalk.

If the "spot marking" system appears very elementary to some coaches, then the purpose of this article has been accomplished because it was intended to be basically easy to carry out. Records of past games will show that many an important encounter has been lost because an elementary principle, such as, a backfield man being illegally in motion at the snap of the ball, or a defensive linebacker being in a position other than one designated by the coach, has been forgotten or violated.





Foiling the Four-Man Line in Six-Man

By DONALD GRANT

Athletic Director, Dexter, New York, High School

HE four-man defensive line in proved six-man football has troublesome to many six-man offensive attacks. Some teams use a fourman line anywhere on the field, while others use it only when pressed deep into their own territory. It seems to be a standard goal line defense and its effectiveness has been demon-

strated many times.

Teams attempting to oppose successfully the power of the four-man defensive alignment via a passing attack have met with small success. The passer, besieged by the four linemen, is either powerless to get his pass off or is so badly hurried that his throw goes astray. We have found that if a planned running threat is coupled with a passing attack, it is possible to move consistently against a four-man defensive line. The running threat used against the defense must be carefully planned because the blocking assignments will be somewhat different than those employed against the usual three or two-man defensive line.

Here at Dexter High School, we have set up a series of plays for the quarterback to use against the fourman line. The basic idea in these plays is to split the defense and keep the defensive players away from the point of attack. Rather than try to go

ONALD "DUTCH" GRANT graduated from Springfield College in 1941 where he was an All-New England tackle and lacrosse player as well as New England light heavyweight wrestling champion. Following overseas service with the infantry he became athletic director and coach at Dexter. Since 1946 his teams have won 15 championship awards in football, basketball, and baseball. He has lectured at the New York State Coaching School on the six-man

over the defensive players or attempt

to move them, we go between them. As is shown in Diagram 1, we have five holes or areas from which to attack the four-man line; whereas, there are only four points of attack against a three-man line.

Our basic offensive formation is the short punt which is normally set up for a three-man defensive line. However, by making minor adjustments in the blocking assignments, we are able to handle the four-man defensive line. Diagrams 2 and 3 show our basic running attack against the four-man line.

With teams of equal personnel, we have found the weakest spot in the four-man line is straight up the middle (Diagram 2). Here, the defensive ends, by driving in too deep, are allowed to trap themselves. Or, if they restrict themselves to sliding along the line of scrimmage, they will be screened out of the play. If they should drop back the plays shown in Diagrams 3, 4, 5, and 6 will work very effectively.

Some teams that use a four-man line vary the position of their backers-up. This maneuver resembles a 4-1-1 defense, but the same principles may apply against the 4-2 with the secondary blocking adjusted (Diaat

fo

ha

te

is

op

ca

th

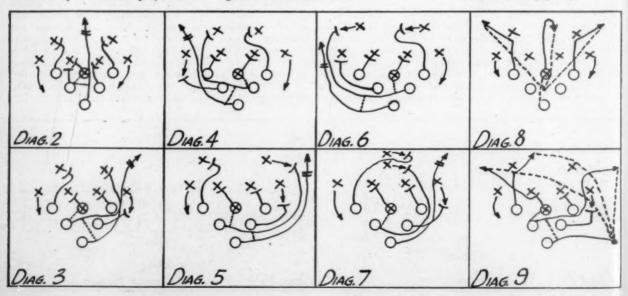
to

of ass lin tha suf to cha

SYS tha bo his plo kno

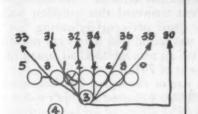
gram 7).

Now, having established a run-(Continued on page 62)





An Answer to Changing



DIAG. 3

ally ne.

ustnts.

aan

3

nst

we

the

nid-

sive

al-

hey

ong

be

hey

in

ork

nan

ack-

s a

ples

the

Dia-

un-

NAL

NE of the most pertinent problems facing our football coaches today is how to meet changing defenses. In attempting to solve this puzzle many of us are losing sight of a very important factor; namely, the individual's learning capacity. We attempt to indoctrinate our young football players with material that has been used successfully by college teams. In most cases this procedure is playing right into the hands of our opponents. High school boys are not capable of assimilating all of the things a college player can handle; therefore, it is educationally unsound to burden them with an abundance of plays and possibly three or four assignments for each play. By shackling a team with more assignments than it can handle the entire attack

It is not the purpose of this article to criticize any system, but to present a different approach to meeting changing defenses.

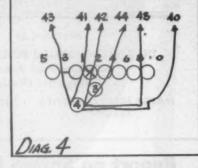
The underlying philosophy of this system is based upon the premise that in order to block correctly, a boy must have a suitable angle on his opponent. The various systems employed by coaches all use this theory, knowingly or not. In designing our

Defenses

By MARTY FISCHBEIN

Florence, N.J. Twp. High School

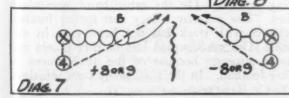
plays we assume the defense will play in an orthodox manner. If they play according to Hoyle everything is fine—but if they do not, this is where our troubles begin. This switching of the defense to the unexpected causes poor blocking angles and handicaps our blockers. Rather than have our boys block from disadvantageous positions, we employ a system that allows our quarterback to change the play after he has left the huddle and observed the opponents' defense. To accomplish this, we



train the quarterback to notice the uneven alignments of our opponents; then through the use of some minor addition or subtraction he may change the hole to his own advantage. This is the first step in four simple maneuvers that are made possible by utilizing a signal system which stresses simplicity.

All of our offensive players are numbered, with the exception of the center, as is shown in Diagram 1. This enables us to include linemen as ball-carriers without changing our basic numbering system. The holes between our offensive men are numbered from the center out, using even numbers on the strong side, and odd numbers on the weak side (Diagram 2). Our play numbers tell the boy the entire play maneuver. The first digit denotes the man receiving the ball from the center. The last digit is always the hole. Therefore, play No. 32 would be the No. 3 back carrying through the No. 2 hole (Diagrams 3 and 4). We adhere to the same principle on reverses and handoffs by adding extra digits to denote the added man or men handling the ball. Our reverse play would be numbered 3-15 or the No. 3 back hands

(Continued on page 45)



8 3 BY ANY 1

Vol. XXXII

May, 1952

No. 9

Published by

THE ATHLETIC JOURNAL PUBLISHING CO. 6858 Glenwood Avenue Chicago 26, Illinois

MAJOR JOHN L. GRIFFITH Founder

JOHN L. GRIFFITH **Publisher**

Report on Spring Football

N the summer of 1949 the Illinois High School Athletic Association voted to outlaw spring football practice. The legislation became effective as of the summer of 1950; consequently, the spring of 1951 was the first season during which most of the member schools of the Association were not permitted to carry on spring practice. The Chicago schools maintain a certain amount of autonomy within the Association and were not affected by this

The abolishment of spring practice, while currently much in the news on collegiate levels, is nothing new in the scholastic field, because a number of state associations have had edicts on their books for a period of several years prohibiting it.

In an effort to find out what the general feeling might be in regard to spring practice we questioned the Illinois high school football coaches by means of a mail questionnaire. We chose Illinois because of the aforementioned one year's experience. However, any number of states could have been selected for a study of this nature.

A number of coaches pointed out that spring football practice was fine for larger schools, but could not be conducted in smaller schools because it detracted from the other spring sports to such a degree as to make it almost, if not entirely impossible, to conduct the other sports. This fact is not borne out by the study. One of the questions asked was "Would you personally favor the return of spring football?" The "yes" and "no" answers were tabulated by recording the enrollments of the schools, and it was found that the average enrollment for those favoring the return of spring practice was 566.8, while for those opposing the return

the average enrollment was 562.5. The smallest school favoring a return of spring practice had an enrollment of 97, while the smallest school opposing the return had an enrollment of 85. The largest school favoring the return of spring practice had an enrollment of 2,500, and the largest school opposing it had an enrollment of more than 3,000.

In order to form a basis for further questions, this question was asked: "Formerly, if a boy on your football squad wanted to go out for other spring sports was he permitted to do so?" An overwhelming 95.1 per cent answered this question with a yes". For the small per cent indicating "no" as their answer it was found that they were moderate sized schools with an average football squad of 85 and an enrollment of 704.

The average size of the squad for those schools which permitted boys to go out for other sports was a fraction under 69, while the average enrollment of these schools was 549. As previously mentioned, the percentage of schools indicating a negative answer was exceedingly small, so small in fact, that a school with an exceedingly large enrollment or a large squad would distort the average. Nevertheless, it may be seen that this unwise practice found more adherents in the larger schools than in the smaller schools where the man power situation would be more acute. Two of the negative answers were qualified in this manner; one coach stated, "It was suggested that he be out for football," and the other stated, "part time."

We were anxious to find out how many boys on the football squad had gone out for the other spring sports who would not have done so had they been required to be out for spring practice. Before doing this we had to determine the total number of boys on the football squads. This was found to be

Then the coaches were asked to state the number of boys from their squad who were out for baseball, track, and other spring sports, keeping in mind that these were boys who would not have gone out for these sports had they been out for spring practice. It should also be kept in mind that 95 per cent of the coaches had formerly permitted their boys to go out for other spring sports if they so requested. It was determined that the number going out, in this manner, from the football squad was 1,343 for baseball; 2,671 for track; and for the other spring sports 352. Eleven coaches require all of the members of their football squad to go out for track. One of these schools never had spring practice. On the other hand, one coach "The popular fallacy that spring football interferes with track has not been true in our school. Our track squad had neither grown nor become stronger because of the abolishment of spring football. In the past, many boys remained

(Continued on page 63)

MacGregor GoldSmith

make the comparison test...



KNOW WHY THE M5G IS BEST

for punting, passing and ball handling

Compare the M5G...check its many advantages...the scientific tanning for better gripping... the improved waterproofing...the perfect balance for greater accuracy in ball handling, kicking and passing. The M5G is made by craftsmen who know how to build precision into this official intercollegiate football. It's the best by test! Contact your MacGregor Goldsmith distributor now.







MACGREGOR GOLDSMITH, INC.

"Scores in every field of sport";

CINCINNATI . HEW YORK . CHICAGO . LOS ANGELES



Judging Gymnastic Meets

By NEWTON LOKEN and PAUL HUNSICKER Department of Physical Education, University of Michigan

T is a generally accepted fact that the key to a good gymnastic meet is good judging. Without this the fans, coaches, and gymnasts become dissatisfied. We realize that in some instances the judges have erred in giving certain scores, but it was apparent that each judge was conscientiously doing his job to the best of his ability. Frequently a particular judge is singled out for criticism because he supposedly disagreed with his fellow judges. With this in mind we obtained the detailed results of the 1950 National Collegiate Gymnastic Meet and examined these results thoroughly. The procedure used for this study was to use the official results of the following events: side horse, parallel bars, trampoline, horizontal bar, flying rings, and tumbling. These data included: (1) the score which each of the five judges gave a competing gymnast; (2) the sum of the middle three scores for each contestant; (3) the order of placement of the performers.

Intercorrelations of the five judges' scores were determined for all six events. The number of times a judge scored men high or low was also tallied in an effort to determine whether a particular judge was habitually high or low. There was some duplication here in that occasionally two judges would have the same low or high score. In these cases both were credited with an "extreme." The basic data were also re-scored, using the sum of the points awarded by the five judges, rather than those awarded by the middle three. The placement for the first six men in each event was compared with placement under the

traditional system.

A full examination of the figures showed the following results: The gymnastic judges for the 1950 National Collegiate Gymnastic Meet agreed with each other to an acceptable degree. There is only one correlation below .800 and there are 50 relationships of .850 or higher. The remaining nine objectivity coefficients fall between .800 and .849. The consistency of the judges would probably compare favorably with subjective opinions of five experts rating any other physical or motor trait. It was felt that the five judges selected for judging assignments in this N.C.A.A. meet were experts in respect to their experience as gymnasts, and also in

regard to their judging experience.

Realizing that topnotch judges cannot always be obtained, it may be difficult to secure a comparable level of agreement for the average dual meet. An interesting observation shows that the greatest amount of agreement in judging was reached in the horizontal bar event: whereas, the smallest amount of agreement was in tumbling. There could be many reasons for this. Could it be that all of the judges had actual experience in the high bar; whereas, only two or three had tumbled, thus the differences in their thinking; or could it be that the high bar lends itself to objective thinking; whereas, tumbling does not? What do you think?

The second item considered in the analysis of the meet centered around the number of times a particular julge's rating was high or low. We should mention immediately that no one judge stood out from the other four in being consistently high or low. Some interesting outcomes for each apparatus were observed. For instance, on the side horse Judge 2 tended to rate low and Judge 1 rated high. Without mentioning names and involving personalities we see that in the background of these two men there may have been reasons for their judging. Judge 1 was extremely good on the side horse; whereas, Judge 2's specialties were the high bar and parallel bars. Because of his background

NEWTON LOKEN and Paul Hunsicker collaborated on this article. Loken is familiar to our readers since he has written a number of articles for us. His most recent article, "Advanced Stunts on the Parallel Bars," appeared in the January issue. Hunsicker graduated from Syracuse University in 1939, received his master's from Springfield College in 1941, and his doctor's degree from Illinois in 1949. During the war he supervised and administered the Air Force Physical Fitness test to thousands of men. He was a member of the research group which conducted tests on the

1948 U. S. Olympic Swimming

Team.

Judge 2 may not know as much about the side horse and thus be hesitant about giving a high score. The reverse may be the case with Judge 1

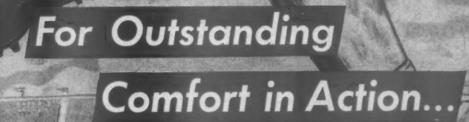
in awarding high scores.

Still this picture becomes confusing when we compare the judges on the parallel bar event. It was found that Judges 2 and 5 scored low, while Judge 3 was high. In this particular case both Judge 2 and Judge 5 were excellent parallel bar men during their school days, and Judge 3 was more of an all-around man with possibly less experience on the parallel bars. Also, in tumbling, we find that Judge 4, who was an outstanding tumbler in his school days, tended to be more critical than the other judges in that his scores were consistently lower than those of the other four judges. In this event no judge stood out as being the high scorer. This complicated picture definitely suggests that the judge's personal experience and ability on a particular piece of apparatus could not be taken as a guide to his judging of an event.

The general practice of employing five judges and then discarding the scores of the high and low judges was challenged. Since the judges are supposed to be experts, and this is probably more generally the case for the large national meets than for our regional dual meets, it appears to be irrational to ignore the ratings of two judges simply because they happen to be high or low. If the coaches feel that there should be five judges at a meet, perhaps all five should be used in determining a winner. In looking over the correlations, it was found that at least one outstanding thing is accomplished by using all five judges, and that is the elimination of many ties. In checking through the results by using only the middle three scores, we find that we have three ties on the six events. Many ties are eliminated by using all five judges. The two-way tie on the side horse and the three-way tie on the horizontal bar are dissolved, and the gymnasts automatically assume an "untied" position in the placing or-

It is interesting to note that when five judges were used, none of the first place and second place men's positions were changed. Also, in all

(Continued on page 43)



Riddell. FOOTBALL SHOES Best in the long run!

P

MAKE no mistake! There is no substitute for quality particularly in athletic footwear.

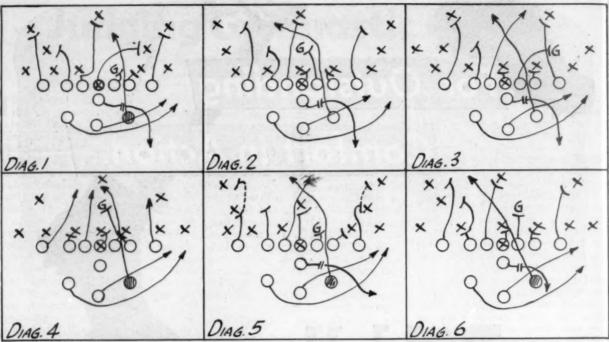
To give out with their best efforts, players need the added confidence and greater security of perfect fitting, well balanced shoes—the only kind made by RIDDELL.

Yes, RIDDELL maintains the highest standard of quality in making really fine athletic shoes. The exclusive RIDDELL athletic last provides that true, glove fitting comfort with proper foot support. Choicest parts of select leathers used throughout account for lighter weight, greater speed and longer wear. Genuine Goodyear Welt Construction assures dependable service season after season.

What's more, each phase of manufacture is handled by expert craftsmen skilled in the art of perfecting a shoe worthy of the name RIDDELL—famous now for over a quarter of a century.

> See the Complete Line of RIDDELL Shoes at Your RIDDELL Dealer!

Specialists in Finer Athletic Equipment for Head and Foot



Problems in Coaching Preparatory Schools

By JOHN L. MADDOX
Assistant Football Coach, Rutgers University

HE essential problem in coaching preparatory school football lies in the large turnover of playing person-nel each year. Unlike high school squads where the boys travel along a normal four year course, most preparatory school teams are made up of a sprinkling of old boys and a number of one-year students who come in either as seniors or as postgraduate students. While many of these boys have played football in high school; they usually remain in preparatory school for just one year. Hence, each year, the squad loses a large number of its older boys whose places must be filled by a similar group of one-year newcomers. This turnover, coupled with the inexperience that a coach must contend with each year, creates the basic problem of the preparatory school coach. Furthermore, it creates other problems that must be met and overcome if a successful season is to follow. How well all of these problems are met will spell, to a great extent, the difference between victory and defeat.

Recognizing the basic problem, then, we will list the attendant problems and suggest methods of remedying them. These remedies have been tried and found successful over a period of time. Problem No. 1—Condition. This is a relatively simple matter; therefore, it is often overlooked. Most preparatory schools, particularly of the boarding school type, have an advantage here. The boys who attend schools of this type observe a definite, well-regulated way of life. Every coach knows how valuable this may be in training.

Secondly, being generally unhampered by league or state regulations, the practice sessions may start at least two weeks prior to the opening of school. This additional time allows two practice sessions daily, and plenty of time for chalk talk. It further al-

PRIOR to his return to Rutgers, his alma mater, in the fall of 1950, John Maddox compiled an enviable record in preparatory school circles. This article deals with the problems encountered in coaching prep teams. Maddox started his coaching career at Valley Forge Military Academy and then moved to Bullis School. His 1947 Bullis team holds the honor of being the only secondary school to defeat both the Army and Navy plebes in the same season.

lows time to condition the players properly. Plenty of distance running in the earlier stages to develop stamina, and plenty of wind sprints later on to develop speed are the order of the day. If this running is coupled with well-planned calisthenic periods, there is no reason why a coach cannot bring the squad into good shape. This is going to pay off later. As a rule, there will not be two platoons so this first group will have to be conditioned to go all the way.

Problem No. 2—Placing the Boys in Positions. Generally, a coach has had considerable experience in placing boys in positions. However, within limits, he will want the best eleven players on his A squad. By this time the players have had enough scrimmage for the coach to know who the men on the squad are to be. He may now forget about scrimmage, select the best eleven players, and juggle them around to fit into the eleven slots.

A good selling job is necessary at this point because some new fullback may not care to play guard. But, if the coach has done a good job of selling, he will wind up with the best eleven players on one squad.

Problem No. 3-Position Play. Now,

(Continued on page 50)



"...and PASSING, SHOOTING, GUARDING are dependent on footwork"

"A SEAL-O-SAN floor and superior skill performance are synonymous," says Blair Gullion, Director of Physical Education and Athletics at Washington University, St. Louis, Missouri. "Only Seal-O-San gives the surety of footing needed for fast play. Seal-O-San not only provides a surface which is tops for player performance, but its beautiful finish is easy to apply and maintain."

Basketball coaches throughout the country join Blair Gullion in their enthusiastic praise of Seal-O-San. They know that their teams play a better game on a slip-proof Seal-O-San floor. Shooting is more accurate, play is faster. Seal-O-San wears longer, looks better, saves costly maintenance. Try it! You'll agree that Seal-O-San is the best finish yet developed for gym floors.

STATE OF STATE OF SEAL OF SAN

	LABORATORIES, INC.
HUNTINGTON . INDIAN	TORONTO . CANADA
☐ Tell us more about	
	Basketball Coaches Digest. others send 50c handling fee.
NAME	TITLE
SCHOOL	TITLE
M. A. M. Maria	TITLE

er

of ed

le, his ed

in

ad

ng

iin

en

me

mthe

at ack if ell-

IAL

The Six-Man Optional Spread

By ANDREW W. GRIEVE Athletic Director, Van Etten, New York, Central School

A NDREW GRIEVE is completing his second year at Van Etten where he coaches football, basketball, and baseball and teaches physical education. He has coached six-man football for several years and found the formation described in this article very valuable in certain situations.

T the beginning of the past foot-A ball season our coaching staff decided that due to the type of material we had on hand our basic offensive formation would be the straight T formation. We had a pair of fleet-footed halfbacks, and a fair passer and good ball-handler for our quarterback. It appeared as though our offense was fairly well set. But, as will often happen, injuries to key players early in the season reduced the effectiveness of our formation. We had a number of replacements who, although they had used the T formation as second team members, were not experienced enough in its intricacies to make it function effectively.

Our problem was obvious. If we were to present any offensive threat at all we must have a new formation which could be taught in a hurry. After racking our brains and experimenting with the junior varsity squad we struck upon the spread

formation which seemed to fit our needs exceptionally well. We did not drop the T formation entirely, but the spread, in our particular situation, did become our main offensive threat.

The first game in which we introduced the spread was a junior varsity game. Actually, the boys had only two plays from the spread and these were options. The spread was very successful, and our varsity team proved it to be so as the season advanced.

Diagram 1 shows the fundamental position of our players. The center, quarterback, and tailback line up on the ball. The quarterback is three vards behind the center, and the tailback is five yards farther back. The ends spread approximately ten to fifteen yards from the ball on each side, their exact position being determined by the location of the ball in relation to the sidelines. The wingback lines up two yards behind either one of the ends, and one yard inside of him. In all of these diagrams the wingback has been placed on the right side, but he is as effective from either side. This spread, by the offensive team, usually results in an equal spread by the defense. When the ball is snapped, the defense must retreat with the deep pass receivers or stand the danger of having a long pass completed.

Since the tailback receives a clear

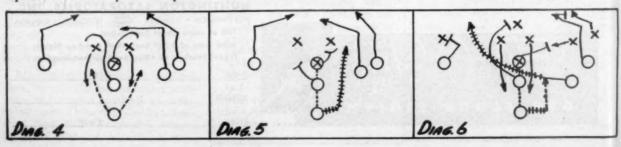
pass from the quarterback he may either run or pass. The option he selects is determined by the defensive maneuvers he meets. Since, in six-man football, each player is eligible to receive a pass, every man must be covered, thereby reducing the defensive pressure on the ball-carrier. This is why the spread is more effective in six-man football than in eleven-man. With two or, sometimes, even only one effective block, the ball-carrier may shake himself loose for long gains.

The defenses which we met varied, but fundamentally they played us man-for-man. The best defense thrown against us was a delayed charging line, which forced our ball-carrier to make the first move. However, the delaying linemen were good targets for our blockers. During the entire season we did not meet a truly effective defense for this formation.

Diagram 2 shows one pattern which the pass receivers may follow. The two ends go deep and cut to the middle, while the wingback goes shorter and cuts sharply to the middle. These three players are the deep receivers if a pass is forthcoming. With these three receivers pulling the defense back, the tailback may take advantage of the defensive weakness and run.

Diagram 3 shows another pattern

(Continued on page 47)



CROUSE-HINDS For your lighting under NPA Regulations and for full scale sportslighting when limitations are lifted, remember ... "Crouse-Hinds Lights the Sports World" with an unbeatable combination ... Crouse-Hinds Type FLA Floodlight and Crouse-Hinds sportslighting know-how! FLOODLIGHTS · AIRPORT LIGHTING · TRAFFIC SIGNALS · CONDULETS

for MAY, 1952 \

nay he enin ligust deier. fecin nes, the ose ied, us ense yed allowere urnot for

the the goes nidleep ing. the take

tern

NAL

25

The Flight System

By W. HUGHES DAVIS

Tennis Coach, University of Arkansas

WHEN we started to play tennis, tournaments were of the one-bracket type with all of the players placed together in one large group. We will never forget the disappointment which came over us in our first city championship. After losing badly in the opening round of play, we realized we were playing someone distinctly out of our class. We had been playing but a few weeks, while our opponent had been practicing for four years. The game would have been more enjoyable if we had been able to play someone nearer our own

ability.

It was a few years before we were able to do anything about preventing such one-sided affairs. But when we began to supervise sporting events, we sought earnestly for some system that would enable younger players to avoid the humiliation we had Handicap tournaments, double elimination championships, and novice events-we tried all of them. It was found that handicap tournaments were useful for one-day special activities only. Double elimination championships were too lengthy and required too many courts. Novice events appealed only to the less skilled participants. We were looking for the type of tournament which would be attractive to all ability groups, but none proved to be as satisfactory as the single elimination tournament we devised and which employed the flight system idea. This system has also been applied to other sports and the results have been favorable. For explanation purposes, we will describe the system as it has been operating at the tennis club where we teach during the summer.

We might mention here that this type of championship is similar to the average golf tournament in which the players are classified into flights according to their ability. In this way, one entrant competes with another player who has a similar degree of skill. The winners of each flight are the announced champions of their divisions, and they do not meet one another in any kind of playoff. At the conclusion of the entire championship, attractive awards are presented to the winners and runner-ups in all flights.

The club ladder is the basis for determing both the number of flights and the assignment of players to the various divisions. This ladder is di-vided into three flights of twelve positions each: the championship flight (first twelve); second flight (second twelve); and third flight (third twelve). The same number of flights is used in the tournament. In order to qualify for the tournament, a player must be ranked on the ladder. When entering the contest, the competitor signs in the same flight in which he is presently ranked. If all of the ranked players do not wish to compete in the club championship, the tournament committee may complete the unfilled bracket with entrants from the next lower flight; or the committee may decide to allow the grouping to remain as it is, and start that flight into action with fewer than twelve participants. With everyone in the tournament ranked, the task of seeding is relatively easy.

The tournament committee draws up single elimination pairings for each flight and follows the official rules except for one minor change. Even though there may be only twelve or fewer players in each flight, the committee often seeds as many as four. This seeding is excellent for publicity and adds interest to the

tournament.

Because the flight system depends to a great extent on a club ladder board, our club has worked out a rather inclusive set of rules for ladder activity. A challenge board committee formulates all rules and makes decisions on any unusual situations. A few of these rules are significant in their relation to the flight system used in the club championship. One rule states that a player is not obliged to accept more than two challenges each week, only one of which may be from the same person. This rule allows each player a chance to challenge others so that he is not continually accepting challenges. Another rule specifies four days as the length of time in which a player is expected to accept a challenge. Still another rule makes provision for the newcomer to gain an appropriate spot on the ladder. One who is unranked may challenge any person for his

HUGHES DAVIS graduated from Guilford College in 1941, and since that time has been actively engaged in teaching and coaching tennis. Prior to and following the war, he was with the Greensboro, North Carolina, Recreation Commission, leaving in 1947 to become coach at The McCallie School in Chattanooga. In 1949 and 1950 he was freshman tennis coach at North Carolina, and in 1950 assumed his present duties at Arkansas. During the summer Davis is tennis professional at the Rochester, Minnesota, Tennis Club.

position, but unless the challenger is successful he must start at the very bottom of all groups. After a contestant wins a position, then he may challenge one or two positions above his rank, thus advancing as rapidly as he is capable.

This system, with modifications, has been applied to all the singles and doubles divisions in all events for men, women, boys, and girls in our annual club championship. In the singles for men and women, twelve participants comprise a flight; in doubles, six teams comprise a full contingent. Flights in the events for boys and girls are made up of approximately four to eight players for singles and two to four teams for doubles. If only two teams should enter an event, and they are of approximately the same ability, then the event is as much a part of the tournament as if there were more entries. These teams may not fit into any of the other brackets, but they can have a great deal of fun playing off for the championship of their flight. Next year, instead of two entries, there will probably be four or five in this same flight, due to increased interest.

There are only two disadvantages in the flight system. First, a few players, even though they realize they are not in the class with the more advanced competitors, would like a chance to play those who are rated higher. The flight system does not provide for the weak to meet the strong. Second, when players are classified into groups, they are labeled either championship, second, or third class types. Some players do not like the labels they receive.

The advantages of the flight system over other procedures are numerous and significant. First, the system rec-

(Continued on page 48)

Topo Choice of Coaches and Players

PENNSYLVANIA'S FAMOUS PENNBILT LINE!



is

d

IT

e

e

11

T

I

1

d

o-

of

t. s,

e

d

d

30

e

re

d

18

VL.

Here's the great PF-6 football with the famous grip-grain cover for perfect feel and handling. A favorite with varsity players in any league. Here's Pennsylvania's first team of Athletic Balls—the famous Pennbilt Line. Here are the reasons the Pennbilt Line is preferred by coaches all over America for practice and official varsity play—

- Perfect "feel" and styling
- Famous Grip-Grain cover
- Multi-Ply fabric carcass
 construction
- Retains shape longer .
- Official size, weight and performance



Pennsylvania built this PS-6 with ruggedness in mind. It's the finest, toughest soccer ball made. Official in all departments size, weight and performance.



Accepted!—Accredited!—Acclaimed! The PB-6 basketball is leading the field in style, feel and performance. Five ply, five pole construction for longer wear and retention of shape. Double valve for positive balance.

Join the Swing to the Preferred Line Play Pennbilt

The famous Pennsylvania PF-6 Football and PB-6 Basketball are sanctioned for interscholastic play by the National Federation of High Schools.



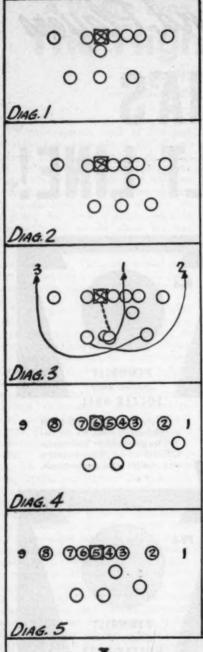
Perfect flight—feathery feet.
Official in size and weight, this
PV-6 is smartly designed with an
18-section striped cover for precision play in any competition.

PENNSYLVANIA RUBBER COMPANY

SALES: AKRON, OHIO



FACTORY: JEANNETTE, PA.



Michigan System with a Balanced Line

By FRANK WATERS
Football Coach, Walled Lake, Michigan, High School

THE so-called Michigan system of football, which was originated at the University of Michigan over a decade ago, has spread to all parts of the country where it has enjoyed a great deal of success in many colleges and high schools. While each coach may apply a few of his own variations, it is still a distinctive style of play which may be recognized easily. After we describe briefly the general workings of this system, we will show a few variations which have been used with a degree of success at Walled Lake High School.

This system traditionally operates from an unbalanced line, with the team going directly to a T formation from the huddle (Diagram 1). Approximately 20 per cent of the offense is run from this formation. About 80 per cent of the plays are run from the single wing formation into which the backs shift from the T (Diagram 2). It is from this formation that the well-known spinner plays are run.

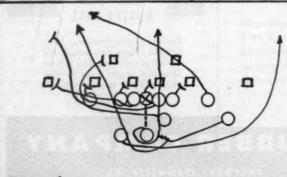
On the spinner series, the ball always goes to the fullback, who makes a complete turn, giving to one of the halfbacks and faking into the line, or faking to one or both halfbacks, and then hitting into the hine with the ball, while the halfbacks fake end runs. The general strategy is to have at least two threats into the line. When the wingback comes around on reverses, or fake reverses, there are three threats with which the defense must contend (Diagram 3). With proper ball-handling and

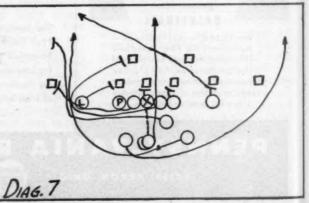
good faking, these threats will momentarily freeze the defensive short backs, and allow the offensive blockers a better than even chance to get position on them.

In the line the holes are opened laterally by utilizing speed in the linemen, rather than sheer size and brute strength which used to be the main requisites of the "crack 'em and bash 'em" type of play used in the horse and buggy days. There is a block in at the hole, a block out at the hole, and the check block. There is usually a block in through the hole, a block out through the hole, a block out through the hole, ablock out through the hole, at least one man always being sent downfield to meet the ball-carrier at the cut-off and block for him there.

The block in at the hole is usually a co-operative effort which is known as a post lead block. The post blocker breaks the charge of the defensive lineman, and as the lead blocker makes contact, the post keeps the seam closed and helps pivot the opponent into a position where he may be driven laterally to the line of scrimmage. To block out at the hole a guard, a tackle, or the quarterback is utilized. This block is most often a trap, which requires the blocker to head for the tail of the hole man, get inside position on his target, and drive him out.

To close the hole left by pulling the linemen, and to prevent a fifth man from operating in the offensive backfield, the check block is necessary.







noort

ckget red

ne nd the nd the at ere the ole,

ing car-

im

ally

ker

ive

ker

the

op-

nay

of

ole

ack

ten

r to

get

and

ing

ifth

sive ary.

NAL

Against hard-charging linemen, a high shoulder check block is used, with the offensive man keeping himself between the play and the man he is blocking. If an enemy is hitting and sliding to the play, the check blocker must go after him, hook his near knee, and go into a crab block to keep him pinned at the line of scrimmage. Blocking in through the hole requires the player to head close to the tail of the hole man, swing through the hole, and block in on the first defensive man to the inside who is usually a linebacker. Blocking cut through the hole requires the same maneuvering, with the offensive man blocking out on the first opponent he comes to once he is through the hole. Most often this man is a defensive halfback.

The off-side end and sometimes the tackle are used for blocks at the cutoff. Their duty is to get downfield to a point where they will be able to help the ball-carrier once he has reached the secondary. A clever back will watch for this man and cut inside his block for a touchdown instead of

a good gain.

Simplicity is the signal system used by the exponents of the Michigan system. Any play that is to go around the right end can be called a 1 play. Each lineman is numbered so that if a play is called which corresponds with his number he and his teammates know that it will hit over him. Many coaches number the right end as 2, the right tackle 3, the right guard 4, and left guard 5, the center 6, the left tackle 7. The left end is the 8 man, and every play that goes around him is known as a 9 play (Diagram 4).

With this system the offensive backs and linemen always know exactly where the play will hit regardless of the defensive setup. The last number of the signal always designates the hole where the play will hit, while the next to the last digit designates the series to be used. The 20 series could be the spinners, the 30 series could be direct running plays by the left halfback, the 40 series could stand for the buck lateral plays, etc., with any number of series the coach wishes to use in his offense. Consequently, if the quarterback were to call a 24, each player would know the play would hit over the 4 man and that it would be of the spin series.

Most coaches who use this system like to use a fluid wingback. Sometimes the right halfback will line up in a deep wing position and at other times he will go to the up wing. In the deep wing position he splits the gap between the right end and the right tackle, while he is deep enough so that his heels are on a line with the fullback's toes (Diagram 2). In the up wing, he takes a position a yard out and a yard back from his right end (Diagram 4). To designate this option, the quarterback will call the plays as 100 when he wants the wingback in the up position. If the quarterback wanted the 24 play run with the wing up, he would call it 124 and everything would be exactly the same as the 24, except that the wingback would be in the up position.

At Walled Lake we use the fundamentals and the basic principles of the Michigan system, We do, however, use a few variations that allow us to take better advantage of our high school material. The most radical change we have made is to run the majority of our offense from the balanced line. Following the same numbering system, the left guard now becomes the 6 man, while the center becomes the 5 man (Diagram

FRANK WATERS learned his football under Charles Bachman and Biggie Munn. During his four years (1946-1950) on Michigan State's varsity team he played full-back. Waters is finishing his second year at Walled Lake. His 1950 team had a 500 average, winning four and losing four. This past season, using the system explained in his article, Waters' team was undefeated.

5). From this setup we find our weakside attack is stronger, due in part to the fact that we have one more potential blocker closer to the hole. This enables us to hit the hole more quickly. However, there is no apparent weakening to the strong side because of this change. As a matter of fact, we feel it is stronger, except when we run our short yardage power plays.

In an unbalanced line we find some defenses are used which make it unwise to try to pull more than one man when hitting off the tackles or around the ends. This is especially true if a team is not blessed with speedy tackles. From the balanced line two men may always be counted on to pull and lead the play, except against an eight-man line, where two men are not needed.

In the balanced line, the guards are more centrally located when they are separated by the center. When the situation demands, it is always possible to pull both of the guards at the same time without leaving a dangerous two-man gap to be closed. Our fastest linemen are put at the guard positions. This enables us to get the most possible speed around the ends and off the tackles, where it is most essential. When our tackles pull they have shorter distances to travel, and while they may not have the speed of the guards, they have ample time to complete their blocks with effectiveness.

We give our linemen only nine basic assignments to learn. By using these assignments, holes may be opened over any of the numbered positions which are shown in Diagram 5. While the linemen carry out the same assignments each time we want to open a particular hole, the backs have several series from which to choose. This enables us to run a good assortment of plays and hit each hole in several different ways, with but one assignment for the linemen to

learn on each play.

In this day of changing defenses, it seems inadequate to design plays to work against just one defense, or to go to the other extreme, and overburden and confuse a team by asking them to learn a different assignment for every defense that might be encountered in each play in their system. Then again, the ability to work only a limited selection of plays against certain defenses greatly curtails the variety of the attack and presents fewer problems for the defense.

After analyzing the situation, it is obvious that no matter what defense is used, there is either a defensive man on an offensive lineman, or there is not. By using this simple observation we have worked out a series of assignments that enable us to hit effectively anywhere along the line, regardless of the defensive setup. By giving each lineman two alternatives to learn for each of our nine plays, we find our players have a minimum amount of trouble with changing defenses. As a general rule, each lineman will learn his assignments as follows: "If there is a man on you, . . . and "If there is no man on you, . . . Some linemen find they have only one assignment to learn on some plays whether or not there is a man on them. Then again, occasionally there is an exception to be learned for an eight-man line. However, there are only a few of these, and there are no exceptions to be learned against any defense under an eight

(Continued on page 46)



Give your running backs, ends, and safety men the extra speed that so often means extra yards...extra wins! Patented "WING-FLEX" construction makes this the lightest weight football shoe ever built.. with all the fine quality materials and workmanship that have made SPOT-BILT the outstanding favorite year after year. Plan now to add Featherweight "sprint speed" to your team this season!

OUTSTANDING SPOT · BILT *QUALITY - PLUS" FEATURES!

- FINEST QUALITY Leathers Blue Back or Yellow Back Kangaroo Uppers
- NYLON-REINFORCED Non-Stretch Webbing
- COMPRESSO-LOCK Detachable Cleats
- CHOICE of Standard Height or Oxford Style

WRITE FOR CATALOG...of SPOT-BILT's complete line of Game and Practice Shoes — used by more Universities, Colleges, and High Schools than any other shoes!

Consult the SPOT-BILT Dealer in your area for all your Athletic Footwear needs—or write us direct... SPOT-BILT, INC.

1635 W. Augusta Boulevard

Chicago 22, Illinois

SPECIALISTS IN ATHLETIC FOOTWEAR SINCE 1898

en

ds a d. he to nd re es to ve ve ks ne ng be ed m he nt :ks to od ole ut to es. lys or erng nt enm. lly nst he nts is nse ive ere vaof ef-

By ves

1179

de

ne

ol-

nly

me

an

illy

red ver,

ind

red

ht.

IAL

COACHING SCHOOLD

ADELPHI COLLEGE C. S.

Garden City, L.I., New York Aug. 4-6 Courses-Basketball and public relations Staff-Harry Combes, Royner Greene, "Dick" Crawley, and John F. Condon. Others to be announced.

Information-Tuition \$15.00 includes room, set of notes, and ticket to all-star basketball

game.
Directors—John E. Sipos, R. L. Simpson High School, Huntington, L.I., New York and George Faherty, Adelphi College, Garden City, L.I., New York.

See advertisement page 58

ALABAMA COACHING SCHOOL

University, Alabama Aug. 11-14 Courses-Football, basketball, and track Staff-Ed Price, Pete Newell, and Herb Hodges. Information-Tuition and room free. Director-H. D. Drew, University of Ala-

BELOIT COLLEGE

bama, University, Alabama.

Beloit, Wisconsin June 12-14 Courses-Basketball. Staff-Dolph Stanley. Information-Tuition \$25.00 does not include room and board. Average cost of room \$1.50 per day. Director—Dolph Stanley, Beloit College, Beloit, Wisconsin.

CALIFORNIA WORKSHOP San Luis Obispo, Calif.

Courses-Basketball, baseball, track and training.
Staff-To be announced. Statt—10 be announced.
Information—Tuition \$5.00 per unit. Room \$5.00 per week; board \$1.56 per day.
Director—Robert A. Mott, Director of Physical Education, California State Polytechnic College, San Luis Obispo, California.

Aug. 10-22

COLBY COLLEGE

June 19-21 Waterville, Maine Courses—Football and basketball. Staff—James Tatum and Edgar Hickey. Information—Tuition \$17.50 does not include room and board. Average cost of room \$2.50 per day; board \$3.00 per day. Director—Ellsworth W. Millett, Box 477, Colby College, Waterville, Maine. See advertisement page 62

COLORADO H.S. COACHES ASSN.

Denver, Colorado Aug. 19-23 Courses-Football, basketball, baseball, track, and training.

Staff-L. R. "Dutch" Meyer and Ben Carnivale. Others to be announced. Information-Tuition \$5.00 for Colorado coaches; \$10.00 for out-of-state coaches. Average cost of room \$5.00 and board \$3.00 to \$5.00 per day.

Directors-N. C. Morris, Ed Flint, and Don Des Combes, 1532 Madison Avenue, Denver, Colorado

See advertisement page 56

COLORADO, UNIV. OF

June 16-21 Boulder, Colorado Courses-Football, basketball, baseball, track and training.

Staff-Fritz Crisler, Dal Ward, Sparky Stalcup, Bebe Lee, Frank Prentup, Frank Potts, and Aubrey Allen.

Tuition \$10.00 does not include room and board. Average cost of room 75 cents per day; board \$1.75 per day. Director-Harry G. Carlson, University of Colorado, Boulder, Colorado.

IDAHO COACHES ASSN. C. S.

Boise, Idaho Aug. 11-16 Courses-Football, basketball, training.
Staff—Don Faurot, Babe Curfman, Eddie
Cole, Babe Cassia, "Tippy" Dye, Stan Hiserman, and "Dubby" Holt. Information-Tuition \$10.00 for members; \$15.00 for non-members. Dormitory rooms available. Director-L. L. Patterson, South Junior High School, Boise, Idaho. See advertisement page 59 April issue

ILL. NORMAL-WESTERN C.S.

June 10-11 Macomb, Illinois Courses-Football, basketball, wrestling, tennis, and officiating. Staff-Sid Gillman and Frank "Buckey" O'Connor. Information-Tuition free. Director—Ray Hanson, Western Illinois State College, Macomb, Illinois.

NORTHERN ILL. TCHRS. COLL.

June 17-18 DeKalb, Illinois Courses-Football and basketball. Staff-To be announced. Information-Tuition free. Average cost of room \$2.50 and board \$2.50 per day.

Director—George G. Evans, Northern Illinois State Teachers College, DeKalb, Illinois.

INDIANA BASKETBALL SCHOOL

Kokomo, Indiana Aug. 14-16 Courses-Basketball. Staff-To be announced. Information-Tuition \$10.00. Average cost of room \$5.00 and board \$5.00 per day.

Director—Cliff Wells, Box 83, Tulane University, New Orleans, Louisiana. See advertisement page 60

KANSAS, UNIV. OF

Lawrence, Kansas June 6-Aug. 2 Courses-Elementary and advanced basketball; theory and practice of athletic training; and advanced football. Staff-Dr. Forrest C. "Phog" Allen and J. V. Sikes.

Information-Regular summer session tuition.

Μ

Mi

Cou

Staf

har

Infe

Ath

Mot

Cli

Cou

ball

Staf

anne

Dire

Akı

Cou

Staff

Info

spon

ball

Dire

catio

Ok

Okl

Cour

Staff

Whi

Info room

to \$5

Dire

19th

OR

Eug

Cour

track Staff-

John

and !

Direc

ucati

gon.

EA:

East

Cour

Staff-

Evasl

Infor

and 1

Direc burg,

for A

Director-Henry A. Shenk, Dept. of Physical Education, University of Kansas, Lawrence,

KENTUCKY, UNIV. OF

Aug. 13-16 Lexington, Kentucky Courses-Football and basketball. Staff-Lynn Waldorf, Fritz Crisler, Bear Bryant, Ray Meyer, and Adolph Rupp. Information—Tuition free. Director-Bernie A. Shively, Director of Athletics, University of Kentucky, Lexington, Kentucky.

See advertisement page 52

LOGAN'S TRAINING CLINIC

Pepperdine College Sept. 1-3 Los Angeles, Calif. Courses—All phases of training. Staff—Roland "Kickapoo" Logan, Dr. William Allen, Dr. Harvey Billig, and others to be announced. Information-Tuition \$12.50.

Director-Student Health Department, Pepperdine College, Los Angeles, California.

LOUISIANA H.S. COACHES ASSN.

Shreveport, Louisiana Aug. 6-8 Courses-Football, basketball, baseball, and track. Staff-Gus Tinsley, Tommy Mont, Warren Giese, and Ed Hickey. Information-Tuition \$3.00 for active high school members; \$5.00 for non-members. Rooms are free and average cost of board is \$2.00 per day.

Director—Woodrow W. Turner, Byrd High School, Shreveport, Louisiana.

NORTHERN MICHIGAN C.S.

Marquette, Michigan July 31-Aug. 2 Courses—Football and basketball. Staff—To be announced. Information-Tuition \$10.00 includes room and board. Director-C. V. "Red" Money, Michigan College, Marquette, Michigan.

MICHIGAN, UNIV. OF

Ann Arbor, Michigan June 23-July 5 Courses-Football, basketball, track, golf, gymnastics, and intramurals. aff-Bennie Oosterbaan, Ernie McCoy, Don Canham, Albert Katzenmeyer, Newton Lok-en, and Earl Riskey. Information—Tuition \$20.00 resident; \$30.00 non-resident participation; \$50.00 non-resident credit. Average cost of room \$1.00 \$5.00 per day; board \$4.00 \$6.00 per day. Course carries two hours of graduate credit. May be elected for non-credit. Supervisor of Course—Howard C. Leibee, Waterman Gymnasium, University of Michi-gan, Ann Arbor, Michigan.

IDIRECTORY.

MONTANA UNIVERSITY

ra l

16

1-3

be

ep-

6-8

and

Ten

igh

ard

ligh

z. 2

em

ly 5

golf,

Lok-

80.00

-resi 1.00-

day edit.

ichi

NAL

July 21-25 Missoula, Montana Courses-Football, basketball, and training. Staff—Ray Eliot, Cecil Baker, Naseby Reinhart, and Roland Logan.

Information—Tuition \$10.00. Average cost of Room \$1.50 and board \$3.50 per day.

Director—Clyde W. Hubbard, Director of Athletics, University of Montana, Missoula, Montana

See advertisement page 58

NEW YORK STATE C.S.

Clinton, New York Aug. 25-28 Courses-Football, basketball, six-man football, soccer, and training. Staff-Everett Case. Other instructors to be announced. Director—Philip J. Hammes, Proctor High School, Utica, New York.

See advertisement page 54

OHIO H.S. COACHING SCHOOL

Aug. 12-15 Akron, Ohio

Courses-Football. Staff-To be announced.

Information—Seventh annual coaching school sponsored by the Ohio High School Football Coaches Association.

Director-Bob Harper, Akron Board of Education, Akron, Ohio.

See advertisement page 59

OKLAHOMA COACHES ASSN.

Oklahoma City, Oklahoma Aug. 11-15 Courses-Football and basketball.

Staff-George Sauer, Dallas Ward, and J. B. Whitworth.

Information-Tuition \$5.00 does not include room and board. Average cost of room \$4.00 to \$5.00 and board \$3.00 per day.

Director—Clarence Breithaupt, 3420 N. W.

19th St., Oklahoma City, Oklahoma.

OREGON, UNIV OF

Eugene, Oregon July 7-11 and 14-18 Courses-Football, basketball, baseball, and track.

Staff-Len Casanova, L. R. "Dutch" Meyer, Johnny Wooden, Bill Borcher, Don Kirsch, and Bill Bowerman.

Director-Dean P. B. Jacobson, School of Education, University of Oregon, Eugene, Oregon.

See advertisement page 57 April issue

EASTERN PA. COACHES ASSN.

East Stroudsburg, Pa. Tune 23-26 Courses-Football and basketball. Staff-Jim Tatum, Sid Gillman, and Forest Evashevski. Others to be announced. Information-Tuition \$40.00 includes room

and board. Director-Marty Baldwin, Box 109, Strouds-

burg, Pennsylvania.

PENN STATE COL.

State College, Pa. June 10-Aug. 29 Courses-Football, basketball, baseball, track, Courses—Football, basketball, baskeball, track, soccer, gymnastics, wrestling, and lacrosse. Staff—Charles A. Engle, Elmer A. Gross, F. Joseph Bedenk, Charles D. Werner, William Jeffrey, Eugene Wettstone, Charles M. Speidel, and Glenn N. Thiel.

Information—Tuition \$9.00 per credit, plus 40 cents per credit health service fee. Double 100 per 100 pe

room \$36.00 for six weeks; single \$42.00. Board \$75.00 for six weeks. Director—M. R. Trabue, 102 Burrowes Building, State College, Pennsylvania.

See advertisement page 56 April issue

RIVER FALLS COACHING CLINIC

River Falls, Wisconsin June 19-21 Courses—Football, basketball, and training. Staff—Forest Evashevski, Harry Combes, and

Information—Tuition \$15.00.

Director—Joe Hoy, Wisconsin State Teachers
College, River Falls, Wisconsin.

See advertisement page 51

SO. CAROLINA COACHES ASSN.

Columbia, South Carolina Aug. 10-15 Courses-Football and basketball. Staff-Charlie Caldwell, Jess Neely, Rex En-

right, and Hank Iba.

Information—Tuition for members \$7.50; non-members \$15.00. Room is free and

board is approximately \$2.00 per day.

Director—Harry H. Hedgepath, 1623 Harrington St., Newberry, South Carolina.

See advertisement page 47

SOUTH DAKOTA ATHLETIC ASSN.

Aug. 18-21 Huron, South Dakota Courses-Football, basketball, track, and training.
Staff-C. B. "Bud" Wilkinson and "Tippy"

Information-Tuition free. Average cost of room \$1.00 and board \$3.00 per day.

Director—R. M. Walseth, P. O. Box 203, Pierre, South Dakota.

TEXAS H.S. COACHES ASSN.

Fort Worth, Texas

Fort Worth, I exas Aug. 4-8 Courses—Football, basketball, baseball, track, training, lecture on turf and grasses, and lecture on public relations. Staff—L. R. "Dutch" Meyer, Abe Martin, Jim Tatum, Jack Hennemier, Hank Iba, Adolph Rupp, Alex Hooks, Jack Patterson, Elmer Brown, J. R. Watson, and Amos Mel-

Information-Tuition \$13.00 for members; Intormation—Tuition \$13.00 for members; \$16.00 for non-members and high school players; \$26.00 for sporting goods salesmen (4 for each \$26.00). Tuition does not include room and board. Average cost of room \$4.00 and board \$3.00 per day.

Director—L. W. McConachie, 2901 Copper St., El Paso, Texas.

See advertisement page 61

UTAH H S COACHES ASSN.

Salt Lake City, Utah Aug. 11-16

Courses—Football and basketball.
Staff—Walter J. Aschenbach, E. P. "Chink"
Coleman, Paul Moon, Art Beckner, and R.
"Kickapoo" Logan.
Information—Tuition \$10.00 for members;

\$15.00 for non-residents.

Director—Lee Liston, Chairman, Utah Coaches Association, Kaysville, Utah.

See advertisement page 57

UTAH STATE COACHING SCHOOL

Logan, Utah June 2-6 Courses-Football, basketball, baseball, and training. Staff-Clarence "Biggie" Munn and Branch

McCracken. Information-Tuition \$10.00.

Director-John Roning, Director of Athletics, Utah State College, Logan, Utah.

See advertisement page 76 March issue

VA. HIGH SCHOOL LEAGUE

Charlottesville, Virginia Aug. 18-20 Courses-Football, basketball, baseball, track,

and training.

Staff—Art Guepe, Lee Stone, E. J. Male, A. K. Tebell, Frank Ward, Archie Hahn, and

Grant Foster. Information—Tuition \$3.00 for in-state residents; \$10.00 for out-of-state residents. Average cost of room \$2.00 per day.

Director—R. N. Hoskins, Graduate Manager, Memorial Gymnasium, University of Vir-ginia, Charlottesville, Virginia.

VIRGINIA STATE COLLEGE

July 7-11 Petersburg, Virginia

Courses-Football and basketball. Staff-James Tatum, John Stiegman, and Clair Bee. Information-Tuition \$15.00. Average cost

of room and board \$3.00 per day. Director—S. R. "Sal" Hall, Virginia State College, Petersburg, Virginia.

See advertisement page 55

WASHINGTON H.S. COACHES

Seattle, Washington Courses-Football, basketball, baseball, and training. Staff-Howard O'Dell and Al Kircher. Others to be announced. Information-Tuition free to members; \$15.00

for non-members.

Director—A. J. Lindquist, 3215 E. Mercer,
Seattle, Washington.

WEST VIRGINIA UNIVERSITY

Morgantown, W. Va. June 23-July 11 Courses-Football, basketball, track, training, and officiating.
Staff-Charles W. Caldwell, Edward Erdelatz.

Art Lewis, Ed Shockey, Gene Corum, Everett N. Case, Robert "Red" Brown, Quentin Bar-nette, Art Smith, Albert C. Gwynne, and

Patrick A. Tork.

Information—Tuition \$5.00 per credit hour for residents of West Virginia; \$7.00 per credit hour for non-residents. Average cost of room and board for three-week period

Director of Workshop-F. J. Holter, West Virginia University, Morgantown, West Vifginia.
(Continued on page 61)

The Stanford Pitching Chart

By EVERETT S. DEAN Baseball Coach, Stanford University

HART I shows the Stanford Pitch-Cing Chart and a charted game which was played last spring. In order to get reliable data, it is recom-mended that the same man be assigned to the chart for the season. Please refer to the article in the April 1951 issue entitled "The Stanford Pitching Chart" which gives a detailed description of its operation. Chart I will provide information for the following phases of pitching: (1) total number of pitches per game by all pitchers; (2) total number of pitches per inning; (3) total number of pitches per inning and the hits off different types of pitches; (4) total number of pitches per inning and hits of high, middle, and low pitches; (5) batting averages of Stanford players under the following conditions - off fast balls, curve, change, cross-fire, as a first ball hitter, as ahead in count hitter, as a behind ulation of ahead, behind, and even in count hitter, and as an even count hitter; (6) tabulation of strike-outs in different types of pitches; (7) tab-

VERETT DEAN'S article, "The Stanford Pitching Chart," which appeared in the April 1951 issue, brought so many requests for additional information that he wrote the accompanying follow-up. This article consists of the results of a full season's play and presents a great deal of baseball information which is a little on the unusual side. Dean has considerable analytical ability as this article so clearly demonstrates.

counts of pitchers for each game; (8) tabulation of pitching records showing the total of all types of pitches made, total hits off each type, and percentages.

We would suggest that the summary of Chart I be examined again so that its functions will be familiar.

Chart II shows a method of tabulating the total pitches, including four types of pitches, by Stanford and opposing pitchers. It also shows the total number of hits made off each type of pitch. The value in this breakdown of pitching shows both the coach and the players how much has been accomplished, the relative number of different types of pitches made, and the relative number of hits made off each type of pitch.

Chart II also gives valuable infor-mation for future playing dates against the team just charted. First, it shows what opposing pitchers are predominately fast ball pitchers and what opponents tend to use the curve ball more often. A team may then expect more of one type of pitch when facing a certain pitcher. Second, it reveals what opposing teams are good curve ball or fast ball hitters and whose curve ball or fast ball they are hitting. Pitching strategy may be worked out with the use of these charts when the same team is played at a later date.

A comparison may be made of the efficiency of a team's pitchers with

CHART	I	11			12 30				. CAL						2	CORER A		XAND	_
	- 1		2		3	4		5				6		7		8		9	
STANFORD OSENBAUGH	10	F-7	249 21	K K F2	9	53 F5 63	12421 12111 122121 2122 21230 21111	FB XIF	19	E883	**	(18)		1241	FS F7 B	212423	K4K	21.2	435K
OPPONENT NISHITA	112	K 3-3	3	K	13121 2142323 22	B3 KB F3	14221 12 2124121 413	FS B F5	(3)	1-3 5-3 6-3	221	21 2	BB 4-3	212	-3 -8 3	211211	B 2-3 K F6		
NISHITA	Behind Ahead	in	count	on	12 Hits 12 Hits 10 Hit	ter ter ter	s rs ONENTS F	_		Sur	nma)				_	ANFORD	_		
Curve Bo		-	2 base hit 3 base hi		100	122	HITA-8		Pitches for	Gam	10	138			7710	NINGS	41	II9	T
4 - Cross-Fire - Home Run B - Base on Balls Strikes in Red K - Strike Out Balls in Black H - Hit Batter I + 1 Dot at top, middle or bottom of line				74	No.	-	Fast Balls			93	93 No.			Hi-Pitches	54	-	-		
				No. of Curve Balls No. of Change Pace				-	2			No. of Low Pitches			43	-	-		
				11.11	4 No. Hits off Fast Ball 3					1	No. B	ases	on Balls	5	6				
* I Dot at to			belt high,		w	T			s off Cur			0		No. 51	rike	Outs	6	4	
	a buen in a																		
indicate						3			s off High			2	-	- No. H	it Bo	rtsmen	T	0	

The year of "X-TRA" value

This year, for the first time, the new Voit XB20 rubber-covered basketball will be used in many of the top collegiate, junior college and high school league games throughout America. Perfected over the past three years, this new ball was introduced at spring practice last year. Coaches and players told us. "This is the finest basketball ever made bar none." This new Voit XB20 has—

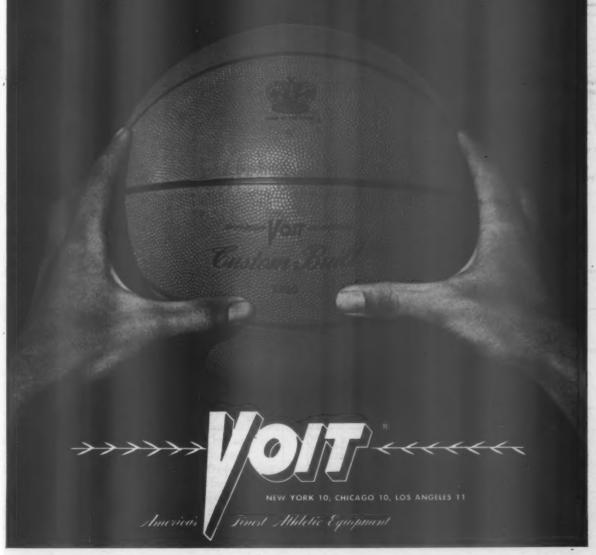
is he 25 nle. de T. es st, re nd ve en en it od nd re be se ed he th

"X-tra" control new, wider seams for surgrip, easier handling.

"X-tra" feel new pebble-graining for better fingertip touch. "X-tra" performance - absolutely official performance for the life of the ball.

"X-tra" wear—lasts from 2 to 4 times longer than conventional basketballs

It's no wonder so many "varsity" games will be played with the XB20 this year. When coaches and players see the performance and value in this ball—when school buyers see their basketball budget expand like a winning coach's chest because of the sayings possible with the XB20—all say, "This is the year of 'X-tra' value—Voit XB20 value."



				C	HART	11								
Game San Jose 4-13-51 Player	Inning	1 P-H	2 P-H	3 P-H	4 P-H	5 P-H	6 P-H	7 P-H	8 P-H	9 P-H	10. PH	11 P4H	To: Pitche	tals s - Hit
Osenbaugh	Fast Ball	9-1	6-0	-	13-2	5-0			1		53		47	3
	Curve Ball Change	2-0	6-0	1-0	2-0	3-0	2-0						3	0
	X-Fire		2-0	1-0		1-0	1-0						5	0
Chez	Fast Ball	201	31				11-	18-4			33		18	4
	Curve Ball							3-0					3	0
	Change X-Fire							40					4	0
Murphy	Fost Ball							1-0	5-1	9-1			15	2
	Curve Ball Change							1-0	40	7-0			12	0
San Jose	X-Fire		30					175		.,11			0	0
Collins	Fast Ball	11-1	8-0	10-0	8-2	5-1	16-5	5-1	3-1				66	11
	Curve Ball	7-2	7-0	40	3-0	3-0	8-0	5-0	3-0				40	2
	Change	1-0	1-0				1-0		1-0				4	0
	X-Fire												0	0

that of the opponent's pitchers, as well as with a standard of good pitching. This is a valuable motivating factor in developing interest in pitching and in the game.

we found that our pitchers averaged 132 pitches per game as compared to 131 for the opponents. Chart II shows the mixture of pitches, whether or not the change-of-pace was being used often enough, the cross-fire, and the ratio of the curve ball to the fast ball. Pitchers and catchers may learn much by studying this ratio.

Some interesting information is brought out in Chart III. The game shown in this chart was selected at random and was not chosen because of its startling information. Twenty hits were made in the game off 145 fast ball pitches as compared to two hits off 67 curve ball pitches. Also,

(Continued on page 53)

				CHART V			1		
GAMES	2-17	2-27	3-2	3-3	3-8	3-12	3-24	3-27	3-30
	P.A. Oaks	San Jose	U.S.F.	Berkovich	El Toro	U.S.F.	Compton	Santa Barbara	U.S.A.
Number of times	Osenbaugh A-6 B-3	Osenbaugh A-7 B-4	Chez A-9 B-6	Murphy A-5 B-8	Osenbaugh A-12 B-0	Murphy A-7 B-6	Osenbaugh A-11 B-6	Claypool A-13 B-3	A-23 B-15
Ahead — A Behind — B Even — E	E-6 Claypeol A-4 B-3 E-4	5-5 Stellar A-4 B-3 E-4	E-10 Claypool A-9 B-3 E-10	E-11 Osenbaugh A-9 B-2 E-7	E-4 Murphy A-8 B-2 E-7	E-2 Osenbaugh A-5 B-6 E-7	E-17 Stellar A-2 B-6 E-3	E-14 Osenbaugh A-5 B-3 E-6	Lourich A-25 B-15
n count	Chez A-3 B-2 E-2	Murphy A-2 B-2 E-2	Thollander A-11 B-5 B-5	Gear A-5 B-6 E-7	Tillman A-9 B-7 E-9	Claypool A-5 B-2 E-0	Gouorchin A-4 B-9 E-8	Rubenstein A-3 8-6 5-7	
Ahead: 2-0, 3-0, 3-1. Behind: 0-1, 0-2.	No oppo-	Collins A-6 B-14 E-12	Townsend A-7 B-11 5-9	Greenwood A-4 B-4 E-9	Motley A-3 B-2 E-3	Thollander A-15 B-9 E-12	Enos A-5 B-8 E-8	Smallwood A-11 B-6 E-15	
1-2, 2-2. Even: 0-0, 1-0, 1-1, 2-1, 3-2.	charted	Maloni A-4 B-1 E-3		Bollard A-3 B-3 E-4	6.3	5-12	50	P-13	
3-31	46	47	4-7	410	413	414	4-17	4-20	4-21
U.S.C. Claypool A-9 B-9	Calif. Osenbaugh A-14 B-12	Claypool A-23 B-9	Chez A-18 B-16	S.F.S. Murphy A-9 B-8	Osenbaugh A-13 B-11	Alumni Alexander A-7 B-8	U.S.F. Murphy A-14 B-14	U.S.C. Osenbaugh A-15 B-6	Claypool A-12 B-8
E-21 Ane A-9 B-8 E-14 Cesca A-2 B-1 E-2 Rankin A-3 B-1 E-2 Kamp A-3 B-1 E-1 Murphy A-9 B-4	Nishita A-17 B-10	Seybold A-21 B-19	Chavez A-19 B-12	Stellar A-1 B-5 E-6 McDowell A-9 B-14 E-19 Clayton A-0 B-4 E-4	Chez A-3 B-4 Murphy A-3 B-6 Collins A-26 B-12	Stellar A-5 B-19 Claypool A-2 B-0 Smith A-2 B-3 Heinen A-14 B-11 Armstrong A-10 B-10	Thollander A-18 B-11	E-17 Laurich A-6 B-5 E-7 Rankin A-3 B-4 E-5 Hernandez A-2 B-4 E-0	Murphy A-10 B-13 Seybold A-14 B-10 E-15 Chavez A-1 B-1 E-5
B-1	2 2 2 2 2 2 2 2	The state of the s			1 1000	1010 3000			



Control **DUST** quickly and effectively with **GULF SANI-SOIL-SET**

Gulf Sani-Soil-Sot is the practical answer to your dust annoyance problems. Here are a few of the many good reasons why it will pay you to investigate this efficient dust-control medium now:

Highly Effective—Gulf Sani-Soil-Set eliminates dust annoyance completely, immediately after application. No long waiting periods are necessary before the ground is ready for use. The dust allaying effect is accomplished by the action of the compound in adhering to and weighing down dust particles.

Long Lusting—Because it has extremely low volatility and is insoluble in water, Gulf Sani-Soil-Set remains effective for long periods. One application per season or year is usually sufficient.

Easily Applied—Gulf Sani-Soil-Set is free-flowing, easy and pleasant to use. It can be applied by hand or by sprinkling truck, and spreads quickly.

Saves Maintenance Expense—Gulf Sani-Soil-Set minimizes dust annoyance and cleaning expense in near-by houses, stores, and laundries.

Write, wire, or phone your nearest Gulf office today and ask for a demonstration of the advantages of this modern proven dust allayer. If you have not yet received a copy of the booklet which gives further information on this quality Gulf product, mail the coupon below.



Gulf Oil Corporation · Gulf Refining Company 719 Gulf Building, Pittsburgh 30, Pa.

Please send me, without obligation, a copy of the booklet, "Gulf Sani-Soil-Set-the modern, proven agent for controlling dust."

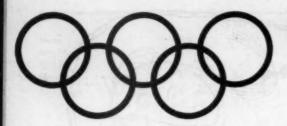
Name.

Title..

Company

Address

25 ching cherarart les. OSSpall ers rais me at use nty 145 wo lso.



Olympic Prospects

By H. D. THOREAU

Editor, N.C.A.A. Track and Field Guide

PART TWO

(Continued from April issue)

Later that same afternoon the arduous 10,000-meter run will be held. This distance, slightly over six miles, is much farther than Americans care to run, but it is ideal for the more patient and persevering Europeans. If ever there was a certain thing in Olympic track competition, it seems to be Emil Zatopek, the Czechoslovakian army captain. Last August he ran two 10,000 meters in succession without stopping, both of them 40 seconds faster than any American has ever been able to run a single 10,000. He finished the 20,000 meters-12 1/2 miles-in 8 seconds less than one hour; whereas, only six other runners on record, including all of the Finnish and Swedish dis tance aces, have ever been able to run 10,000 in less than a half-hour.

Zatopek, an awkward little fellow with thinning, straw colored hair, does not look like a champion. "He puffs and blows while running, makes frightening faces, jerks his head and hunches his shoulders painfully. Every few steps he drops one arm down as if to scratch his leg," according to one observer. But he gets there first, and usually a few hundred yards ahead of his smooth-gliding foes. Zatopek won the 10,000 in the 1948 Olympics, took the European championship two years later, and holds the world record for the distance, 29 minutes, 2.6 seconds.

There are some other good men at this distance and they should put on a spirited race, far to Zatopek's rear. Herbert Schade, a young German; Bertil Albertsson of Sweden; Alain Mimoun, a Frenchman from Algiers; and Martin Stokken of Norway are the other less-than-30-minute men now running. It is almost a national sorrow in Finland that they have no outstanding contenders for the title which they won in five of the last seven Olympic Games. The best Finns now running, Vaino Koskela and Pentti Salenen, fall short of the times turned in by the great Paavo Nurmi 28 years ago.

Although no American has finished among the first six in an Olymp-

ic 10,000 since 1912-only five men finished the race that year including one American-we will undoubtedly have three men on the starting line this year. Fred Wilt, the New York FBI agent, and Curtis Stone will probably be our strongest contenders, but both may pass up this race in favor of a shorter one such as the 5,000-meter run or the 3,000meter steeplechase. Stone's time of 30 minutes, 38.4 seconds three years ago is by far the fastest 10,000 ever run by an American. Tom Crane, Bob Black, and young John Kelley, all from the New England road-racing set; Horace Ashenfelter, a Boston FBI man; and Walt Dieke and Larry Carter from California are other Americans who seem willing to run that far.

The English feel certain that a pair of their long-winded boys, Walter Hesketh and Gordon Pirie, will try the 10,000-meter run at Helsinki. The Russians will likely make a formidable showing at 10,000 meters. Ivan Semyonov and Vladimir Kazantsev are in the 30-minute class, and Nikifor Popov and Yakov Moskachenkov will also probably finish far ahead of

our contestants.

Here is a possible finishing order: 1. Zatopek (Czechoslovakia); 2. Schade (Germany); 3. Mimoun (France); 4. Albertsson (Sweden); 5. Hesketh (Great Britain); 6. Koskela (Finland).

On Monday afternoon the strong men will gather for the shot put final. This appears to be an all-United States-Russia argument with possibly an Icelander receiving a chance. Reigning king is James E. Fuchs, Yale graduate. Fuchs, on a summer trip to Finland in 1950, tossed the shot 58 feet, 10 34 inches for a new record. Until last June Fuchs had won 89 consecutive competitions. In the American championships he was unable to get himself warmed up and was defeated by 19-year old Parry O'Brien, an undergraduate at the University of Southern California, who tossed the shot 55 feet, 9 1/4 inches.

Another American shot putter is Otis Chandler, who is now serving a tour of duty with the Air Force. Chandler, a 230-pound blond giant, who grew from a sinewy high jumper to a shot putter in one summer of weight-lifting, may give Fuchs even more trouble. Chandler had a 56foot throw last year and a 57 foot, 4 3/8 inch toss the year before, which makes him the No. 2 shot putter in the world. Other American contenders are Bernie Mayer from Long Island; Stan Lampert of New York City; and Darrow Hooper and Bob Carey, two young football stars from Texas A. & M. and Michigan State,

respectively.

Against this array the Soviet will likely pit Heino Lipp, Otto Grigalka and Georgiy Fyodorov. Lipp, an Esthonian whom the Russians did not choose to send to the European meet at Brussels two years ago, has a throw of 55 feet, 8 1/2 inches to his credit. This is the best throw ever made by a non-American. Although he might not be overjoyed at competing in behalf of the Russians who appropriated his country, Lipp will still probably be a serious threat to the supremacy of the United States since he is very consistent at 54 and 55 feet. Grigalka, a big farm boy from the Ukraine, is improving rapidly and will probably give his all for the glory of Stalin. He moved up from 52 feet, 7 inches, to 54 feet, 10 inches, last summer and another season at the Crimean winter-training quarters should add another foot to his puts. Fyodorov is an average putter who achieved his best mark, 52 feet, 91/2 inches at the so-called World Student Games which were held in East Berlin last August.

The only outsider who has a chance appears to be Gunnar Huseby from Reykjavik, Iceland. He is the European champion, having defeated Grigalka with a 54 foot, 11 inch put. John Savidge, a 6-foot, 8-inch Englishman, got off an unexpected 54 foot, 5 inch put last year and might do it consistently this season if he strengthens his legs. Jiri Skobla of Czechoslovakia might place among the first six, as might Roland Nilsson, a Swedish boy who is now studying at the University of Michigan, and M. Tuicaku of the Fiji Islands, the Brit-

ish Empire champion.

It will be surprising if the shot putters finish in this order: 1. Fuchs PR

AT

Unive

Unive

Unive

Sacre

Brigh

City

Augu

DA

for M



of ren

56ot. ich

in nd. Is-

rk

lob

om

ite.

vill

lka Esnot eet

OW

dit.

by

ght

in

op

till

the

nce

55

om dly

the 52 ies.

at ers

Its.

rho

91/2

ent

er-

2 eby

the ted

ich

ich

ted

ght

he

of

the

, 2

at

M.

rit-

utchs

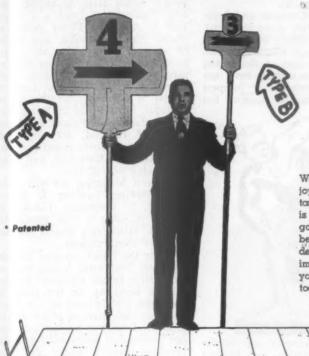
IAL

MAKES EVERY SEAT A SEAT ON THE 50 YD LINE!

TELEVISION

NEWSREELS

LIFE MAGAZINE



TYPE A - \$3500 SHOW-DOWN FOOTBALL MARKER

- e Ideal for large high schools, colleges and universities!
- · Downs adjustable by the touch of a finger.
- e Spins on bearing indicating down to end zone patrons.
- · It is identical on both sides.
- · Adjustable to over 6 feet in height.
- Can be seen with ease from all sides of the

This apparatus is being manufactured in Rochester, Minn. We are dealing directly with the schools that want to add keen enjoyment to their football games, and assist the officials with their task. None are sold through dealers. The price of this improvementis \$35.00 plus sales tax and shipping charges. A few items which go into this device are still hard to obtain; therefore, a limited number of them will be offered for sale this fall. We can guarantee delivery on one for your opening game if you place your order immediately. Don't withhold this efficient piece of apparatus from your game and the fans any longer. Send that purchase order today!

TYPE B - \$14.50 SHOW DOWN

- Ideal for very small high schools—approximately 100 Senior H. S. students.
- It is identical on both sides.
- e Downs adjustable by the touch of a finger.
- Adjustable to over 7 feet in height.
- Sells at \$14.50 plus sales tax and shipping charge.
- Order today—to insure immediate delivery.

PRAISED AND ENDORSED BY COACHES AND ATHLETIC DIRECTORS THE COUNTRY OVER!!

A FEW OF THE THOUSANDS OF SCHOOLS NOW USING "SHOW-DOWN" WITH GREAT SUCCESS

University of California University of Oregon University of Nevada Shriner's East-West Sacramento College

Rose Bowl Game

Brigham Young University City College of New York Augustana College

Colorado State College United States Army team Stanford University University of Idaho College of the Pacific

Denver University Oklahoma A. & M. Schools in Canada Dickinson College

Over 1200 High Schools in the United States

Over 15 Acedemies Washington State College California Aggies Los Angeles Professionals Graceland College University of West Virginia University of North Dakota Over 50 Parochial Schools

Cologie University

6TH ANNIVERSARY OF

THE FOOTBALL DOWN-MARKER

DAVID BEMEL & ASSOCIATES - 224 South Broadway, Rochester, Minn.

wor

Lou

Stoc

1934

and

but

sibly

tean

broa

first

he i

Pen

sease

ran

bala

ing both

Devi

Kan

tion

ing.

san.

A. &

Ang

Univ

pion

feate

the

year

seem

whil

fey 1

vev i

be c

der !

is D

was

1948

ture

den's

but

Rep

surp

hurd

in J

John

long

cann

they

ing o

(Cey

(U.S.

land

elimi

pole

serio

day,

preve

ing i

the (

run :

Or

Af

As

A

It

(U.S.A.); 2. O'Brien (U.S.A.); 3. Lipp (Russia); 4. Chandler (U.S.A.); 5. Huseby (Iceland); 6. Grigalka (Rus-

After three rounds of elimination races the previous two days, the large 100-meter dash field will be pared down to six finalists-supposedly the world's six fastest humans. It is quite likely that three of the six will be Americans since no other country in the world places as much emphasis on sheer speed as we do. Unless he breaks a leg or bows a tendon in the intervening months, Emmanuel Mc-Donald Bailey of the island of Trinidad should also be in that final. Bailey who equaled the world record of 10.2 seconds for the 100 meters at Belgrade last summer, and Harrison Dillard are the only two of the six 100-meter finalists in the 1948 Games who are still running as amateurs. Mel Patton is coaching; Barney Ewell and Lloyd LaBeach have been running professionally; and Alan Mc-Quorquodale of Scotland has retired.

Two boys who were unable to make the 1948 final seem to be good bets for 1952. Rafael Fortun of Cuba and John Treloar of Australia. Fortun has since won the Central American and Pan-American Games sprints and has defeated a number of United States stars. Treloar, the Empire champion at 100 and 220 yards, and his countryman, Bill de Gruchy, will be dangerous if they can accustom themselves to running on a track instead of grass, and running in July instead of January (their summer).

Vladimir Sukharyev of Russia is certain to be a place winner if he can repeat his best times when he is out from behind the Iron Curtain. Last summer he ran the 100 meters in 10.3 seconds, just a tenth of a second slower than the world record, but it is suspected that he will not be able to repeat this clocking in the presence of more exact timers. In 1950 he had a 10.4 time but could only do 10.7 for third place in the European final. France's Etienne Bally, the European champion, and a trio of Germans, Heinz Futterer, Werner Zandt, and Hans Geister, might squeeze into the final. Russia has a dark horse in Levan Sanadze.

Jim Golliday, a stocky little sophomore from Northwestern University, seems to be the most reliable American hope. He came from comparative obscurity last year to win the United States 100-meter title in 10.3, and was undefeated in a summer tour through Europe. Andy Stanfield, a tall, lean New Jersey boy,

might quite possibly be the current "world's fastest human," but he developed leg trouble during the past two years, so he cannot be counted on. Bob Work of Monterey, California, Art Bragg of Morgan State College in Baltimore, and Jim Ford of Drake University also might be able to beat all of Europe's best.

In a tightly-packed finish we see the following outcome: 1. Golliday (U.S.A.); 2. McDonald Bailey (Great Britain); 3. Stanfield (U.S.A.); 4. Fortun (Cuba); 5. Bragg (U.S.A.); 6.

de Gruchy (Australia).

It is only the Germans and Japanese who have ever given the United States much trouble in the broad jump, and the war effort apparently took a great deal of the spring out of them, since they have not produced any outstanding jumpers since the late thirties. America has



won the broad jump in nine of the ten modern Olympics and appears headed for another leaping title this summer. The main reason for this optimism is an intense young student at U.C.L.A. His name is George Brown. George participated in 27 meets last year and was undefeated in his specialty. After defeating the best in this country, he went on a tour through Japan where he jumped 26 feet, I inch. The United States has two other good 25-foot broad jumpers in Stanfield and Meredith Gourdine of Cornell University. Both of these boys jumped 25 feet, 9 inches last year, but were unable to defeat Brown. If Stanfield should decide to pass up the strenuous jumping event and concentrate on his sprinting, it is difficult to tell who the third United States representative will be in the Games. Possibly it will be Ierome Biffle, the 1950 collegiate champion from Denver who is now serving in the Army, or maybe Bill Hairston, a Columbus, Ohio, boy

who had an impressive record in high school last spring, or Lorenzo Wright of Detroit, who placed fourth in the broad jump at London in 1948.

The only boy outside of this country who has jumped 25 feet since World War II is Neville Price from South Africa. Price is now attending the University of Oklahoma. If he is able to repeat his 25-foot, 3/4-inch jump of 1950, he might break into the United States sweep. Two other South Africans, Harold Rall and Denis Hasenjager, might jump into the bronze medal class, as might Lancelot Thompson of Jamaica or Hugh Jack of Australia. Prince Adedoyin placed fifth at London and might be able to place again this year. Europe's best, Odon Foldessy of Hungary, Paul Faucher of France, Torfi Bryngeirsson of Iceland, Gerhard Luther of Germany, Alvaro Dias of Portugal, Boris Brnad of Yugoslavia. Eddie Adamczyk of Poland, and Henk Visser of Holland, are not good enough. The Russian broad jumpers, Andryushenko, Kotenkov, and Grigoryev jump only 23 feet.

Without hesitating we will make the following forecast: 1. Brown (U.S.A.); 2. Gourdine (U.S.A.); 3. Wright (U.S.A.); 4. Price (South Africa); 5. Hasenjager (South Africa);

6. Visser (Netherlands).

While the broad jumpers are taking their final turns in the pit, the six finalists in the 400-meter hurdles will be lined up on the track. If they seem a little tired as they kneel down on their starting blocks it will probably be due to the fact that they ran preliminary heats until 8:15 the previous evening, under the long summer sun of Finland.

This race covers one complete lap of the 400-meter track, which is a few yards less than a quarter-mile. Every 20 yards there is a 3-foot hurdle. Hurdling is another art that the people of other countries never seemed to master quite as well as have the Americans. The Olympic 400 meter hurdle crown has gone to a United States citizen seven times. Lord Burghley of England in 1928, and Bob Tisdall of Eire in 1932 have been the only non-American winners.

A likely successor to the long line of American victors is Charlie Moore. Moore has taken time out from his Cornell University medical studies to win the United States 400-meter hurdle title for the past three years. In 1949 he completed the race in 51.1 seconds, the best time ever recorded in this country, equal to the Olympic record set by Indiana's Roy Cochran in 1948, and surpassed only by the

THE ATHLETIC JOURNAL

world mark of 50.6 seconds set by a Louisiana boy, Slats Hardin, at Stockholm on a European mission in 1934.

t

e

n

g

h

0

r

n-

e

n

nt

T.

d

of a,

ık

ra.

g.

ke

m

1);

k-

he

les

If

eel

ey

he

ng

ap

ile.

he

m-

ve

00-

2

les.

28,

ave

ers.

ine

ore.

his

to

ter

ars.

1.1

ded

pic

ran

the

VAL

It will take a great deal of running and jumping to defeat Charlie Moore, but one of the boys who might possibly do it is Moore's own Cornell teammate, Meredith Gourdine, the broad jumper of note. In Gourdine's first try at the event two years ago he finished second to Moore at the Penn Relays in 52.5 seconds. Last season at the Penn Relays Gourdine ran into a hurdle and cancelled the balance of his run. Jim Lea, a promising sophomore at U.S.C., has shown both speed and hurdling ability. Bob Devinney, an unassuming young Kansan, chased Moore in the nationals last summer with a 51.8 clocking. Jack Greenwood, another Kansan, Ralph Taylor of Oklahoma 8an, Ralph Taylor of Oklanoma A. & M., and Don Halderman of Los Angeles are other prospects.

Yuriy Lituyev set a new Soviet Union record of 51.7 in their championships last season. Lituyev was defeated by Italy's Armando Filliput in the European championships two years ago. Since that time Filliput seems to have slipped perceptibly, while Lituyev has improved. Timofey Lunyev has been shadowing Lituyev in their recent fast races and may

be close up at Helsinki.

A strong and experienced contender from the other side of the world is Duncan White of Ceylon. White was runner-up to Cochran in the 1948 Games in 51.8 and has since captured the Empire Games title. Sweden's Rune Larsson was a topnotcher, but may have passed his peak. The Republic of Colombia produced a surprise winner in the 400-meter hurdles at the Pan-American Games in Jaime Aparicio. New Zealand's John Holland will have to travel a long way to run this race, and he cannot be disposed of lightly.

As they come across the finish line, they appear to us to be in the following order: 1. Moore (U.S.A.); 2. White (Ceylon); 3. Lituyev (Russia); 4. Lea (U.S.A.); 5. Filliput (Italy); 6. Hol-

land (New Zealand).

After a three-hour preliminary elimination on Monday morning, the pole vault finalists will settle down to serious vaulting at 3:00 P.M., Tues-

day, July 22.

Only a major change of form will prevent the United States from scoring its eleventh consecutive win in the Olympic vault. In both the 1932 and 1936 Olympics, Japan gave us a run for our money, and in 1948 we

(Continued on page 55)



six

wit wh

tio eve

san the

two

the

thà

wer 7

tor

pro

pro

tur

mo

ver

He

Sta

and

wh

WOI

rece

fici

in

jud

par

cou

tion

pos

iud

agr desi

jud

sho

try.

Me

on '

Th

a 1

plan

ics

cou

coa

ten

Ma

nin

is 6

Sati

witl

beir

in t

ticu

orga

ern

exce

T

are

stati

for i

S

EDUCATION — TRAINING — SPORT



The World.. The World Over

TRAMPOLINING

The Makers of America's FIRST Standard TRAMPOLINE* are dedicated Exclusively to creating a Trampoline to meet best the demands of your Gym or Physical Education Program.

NISSEN TRAMPOLINES

are working throughout the world today. Armed Forces -Schools - Colleges - Universities - Camps - Beaches - Pools

MODEL 549-T

Larger - Lighter - Sturdier 'A Flashfold Model"

NISSEN "WEBWING"

A regulation hand-woven web bed for Trampoline

NISSEN "MINI-TRAMP"

"The Modern Springboard"

WRITE FOR FREE LITERATURE

TRAMPOLINE Reg. U. S. Pat. Office 200 A Ave. NW, Cedar Rapids, Ia.

Golf In the Small **High School**

By CHARLES E. ANDERSON Golf Coach, Bement, Illinois, High School

MANY of our leading coaches and physical educators have long been aware of the carry-over value in

For the majority of boys, participation in the more strenuous sports, such as baseball, basketball, and track, ends, or at the most, lingers only a few years after graduation from high school. After a boy graduates, it becomes increasingly difficult to get up a game of football or basketball. He still has the desire to participate in sports, but is frustrated in his efforts to fulfill his desire. There are many young men today, especially in the smaller communities, who would like to continue the brief athletic careers they enjoyed in high school. The answer is golf. A boy who has learned the fundamentals of golf in high school may continue to enjoy the thrill of competition and fellowship for many years to come. Of course, a certain percentage of these graduates will eventually discover the game of golf, but the majority will become victims of our growing malady spectatoritis.

The small high school is necessarily limited in its athletic endeavors by a small budget. We encountered this problem but did not let it deter us. Several boys indicated they would be interested in forming a golf team, so we devised a plan and proceeded to

carry it out.

A brief history of golf, along with a list of terms, rules, and etiquette, was compiled and mimeographed. Twenty boys attended the first meeting, and each was presented with one of the mimeographed copies. A quick check revealed that only two of the boys had ever played golf and only one boy owned a set of clubs. The immediate problem was to secure the minimum amount of equipment necessary to carry out our program. The boys were instructed to take the mimeographed copies home and study them in their spare time.

A notice was placed in the local newspaper informing the community of our golf team and the dire need of golf equipment. The community responded splendidly and within one week had contributed an assortment of thirty golf clubs, six golf bags, and sixty used but serviceable golf balls. Our budget allowed us to purchase eight new clubs, a box of tees, and two dozen plastic practice balls.

Since the spring athletic program consisted of track, with baseball be-ginning the first week of May, we were available evenings for several weeks before taking up our duties as baseball coach.

The first practice session took place on the football practice field and included a demonstration of the stance, grip, and swing. The boys were paired off and given a club apiece and a practice ball between them. They were instructed to practice hitting the ball while we circulated among them attempting to correct the numerous mistakes being made.

We continued our daily practice sessions for two weeks, weather permitting, before visiting a golf course. Since we do not have a golf course in Bement, the president of the board of directors of a country club in a nearby community was contacted and informed of our predicament. We had a golf team but no golf course! He offered to let the team practice on the country club course gratis, provided the boys were accompanied by an adult at all times. We continued practicing on the football field during the week and played the course on Saturday mornings. After the baseball season began, we were busy with the baseball team, so each boy was allowed to check out clubs, tees, and a practice ball, and was instructed to practice at home whenever possible. We continued to play on Saturday mornings and during the week when baseball duties

A golf match was arranged with a neighboring high school, and the boys gained valuable experience although they lost the match. We were able to play only one match last season, but have several matches scheduled for this season.

Several of the boys plan to purchase equipment this summer. By next spring we hope to have some entries in the district golf tournament conducted by the Illinois High School Association.

Gymnastic Meets

(Continued from page 20)

of the events the places from one to six were held by the same gymnasts, with the exception of the side horse, where the seventh man changed positions with the sixth man. In each event the order of places was the same in three events, and changes in the sixth position occurred only in two events. In the remaining event there was a more radical change in that the third, fourth, and fifth places were interchanged.

This study was primarily exploratory in nature and, as a result, several problems have arisen which might prove to be fruitful channels for future research. One thought is that more studies along this line should very definitely be undertaken. Joe Hewlett, gymnastic coach at Ohio State, is conducting a similar study and his results are eagerly awaited.

d

e

b

n

c.

r

g

r.

e

d

d

lf

m

se

C-

t-

d

rs.

n.

n,

ut

nd ne

to

ır-

es

VS

gh

le

n.

ed

II-

By

ne

gh

AL

Studies should be conducted to see whether or not judges tend to favor the home team. It might also prove worthwhile to examine the judging records of a number of recognized officials over a longer period of time in an attempt to learn whether a judge is consistently low or high in a particular event. Further analysis could be carried out by use of a questionnaire. With this tool it would be possible to survey the opinions of judges and determine the items of agreement as well as disagreement,

Also, in connection with thoughts designed to improve the present judging situation, gymnastic clinics should be held throughout the country. At the 1951 N.C.A.A. Gymnastic Meet such a gymnastic clinic was held on Thursday, the day before the meet. This clinic was well attended, and, as a result, a similar clinic is being planned for future meets. Other clinics are being held throughout the country. Last winter a number of coaches traveled long distances to attend meetings at Daytona Beach. Many gymnastic districts are planning their own clinics. The Big Ten is endeavoring to hold a clinic on Saturday afternoon in connection with the Big Ten Meet. Clinics are being planned for the coming year in the East and in the far West, particularly in California. The judging organization that exists in the southern section of California is doing an excellent job.

This all proves that the coaches are intensely concerned about the status of judging at meets.



MORIMODEL BANKS With case Hardened Herculite alass

Have been installed this past season at

University of Kansas Public High Schools, Winston Salem **East Carolina College** Lee Junior College, Houston, Texas

Redlands University Fowler, Indiana, High School University of Delaware and many others

Morimodel banks were used in the All-Army Tournament at Fort Sam Houston



also manufacturers of

MORIMODEL BACKSTOP

with the new lever action

jacks, permitting quick and easy removal have been recently installed by:

Georgetown University

Detroit University Brandeis University Colorado Cattlemen's Coliseum, Denver

Minas Tenis Clube, Rio de Janeiro

(Note: Jacks may be procured for attachment to brackets already in use.)

Write for information and prices

CK MOREY, INC.

628 Washington St. Abington, Mass.

Another FIRST From

CHAMPION!

Reverse Weave SWEAT SUIT

- WON'T SHRINK in length!
- · WON'T STRETCH in width!
- No shoulder seams to tear!



get sweat shirts and pants that won't shrink in length or stretch in width, despite repeated washing! The secret is Champion's "reverse weave" construction and double knit ribbed inset gussets that assure correct fit with freedom of movement. Already adopted as standard by Cornell, Ohio State, Duke, Wisconsin, Northwestern, lowa, Oklahoma and many others.

SWEAT SHIRT

RWSS Double knit side gussets for full chest freedom. Seamless shoulders for extra strength, long wear. Silver grey, S-M-L. Order the size actually needed. \$26.00 Doz.

(With design, \$28.40 Doz.)

SWEAT PANTS

RWTP Double knit crotch and leg inset gussets for free movement. Elastic bottoms, drawstring watst. Silver grey, S-M-L. Order the size actually needed.

\$28.00 Doz.

(With design, \$30.40 Doz.)

(Will design, \$30.40 Doz.)

WRITE FOR NEW 1952 CATALOG

. BUY DIRECT! .

MANUFACTURERS

from yorn to finished product

CHAMPION KNITWEAR CO.

Rochester 4, N. Y.

Traction With Heat for Neck Injuries

By J. BLAINE RIDEOUT Head Trainer, University of Nebraska

SPRING football practice is at hand, and there will be neck injuries, in addition to other injuries, for the trainer to worry about. The stiff neck will come in for its share of attention and treatment. At this time we would like to describe our treatment of neck injuries.

In an earlier article, the traction halter was demonstrated. This halter is used for removing players with neck injuries from the field to the training room. Since a neck injury is generally placed in traction before x-ray diagnosis is made, and afterwards for possibly twelve hours to relieve muscle spasm, we felt that if traction with cold applications was beneficial during the first few hours it could also be benefical in the later stages of treatment when heat was the therapy prescribed.

This article pertains to injuries of the muscles of the neck with insertions in the shoulder area. When all possibilities of fracture to the cervical spine were negative, the athlete returned to the training room for further treatment and rehabilitation.

Most neck injuries are caused by the use of improper technique in blocking and tackling. The trapezius muscle is used to keep the player's head up and his eyes on the ballcarrier's belt buckle when the tackle is to be made. Lowering of the head puts an abnormal strain on the trapezius muscle. In the flexion and rotation of the head, the scalenus, anterior, medius, and posterior muscles are used, and if these muscles are

BLAINE RIDEOUT, who is no stranger to our readers, graduated from North Texas State College where with his brother, Wayne, he gained a world-wide recognition as a member of the Rideout Twins. During the war he was a combat corpsman with the 4th Marine Division. After being discharged from the service Rideout coached track at Denton, Texas, High School and in 1947 went to Texas A. & M. as head trainer.

strained beyond their limit, they will become spastic and cause great discomfort. The levator scapulae is best explained as the main muscle that is used, when the tackler hunches his shoulders just before making contact. If this muscle is not contracted, it receives a blow while relaxed. Then the muscle goes into spasm and is another cause of the stiff neck.

ar

ab

de

un

ch

the

he

ade

us

igi

ing

line

sam

ing

the

6" a

No.

a qu com

Min

play

weal

to f

then

T

Our method of applying this type of traction is shown in the illustration. The halter is attached over the head by a spring or strong piece of inner tube to an overhead ladder or steam pipe so that there is decided pull on the neck and shoulder muscles while the patient is seated on a stool. The heat lamp is then turned on the injured muscles for 15 to 20 minutes. After 15 or 20 minutes of heat and traction the neck and shoulder muscles are massaged, and the athlete is put back into the traction harness and exercised. The heat lamp is moved forward and backward, and from side to side until the muscles being treated begin to feel tired. This form of treatment and resistance exercise is done each day until the patient is free of pain. When the patient is free of pain he is instructed to take extra bridging exercises during the grass drill period each day of practice.

This treatment has speeded up recovery and has given the patient relief sooner than if the traction had not been applied with the heat treatment in the recuperative stage.



THE ATHLETIC JOURNAL

Changing Defenses

(Continued from page 17)

to the No. 1 back who runs through the No. 5 hole (Diagram 5). Our end around play would carry the number 3-50.

11

d

e

1-

e

of

r

d

es

1.

es.

S-

is

SS

d

es

is

X-

ne

ne

ct-

es

ay

re-

ad

at-

AL

A simple set of rule blocking combined with the numbering system enables our boys to block with confidence. The number of digits in the play tells whether a sustained or brush block is necessary.

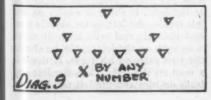
With this explanation of our numbering system, it is now possible to understand how we adjust to meet changing defenses.

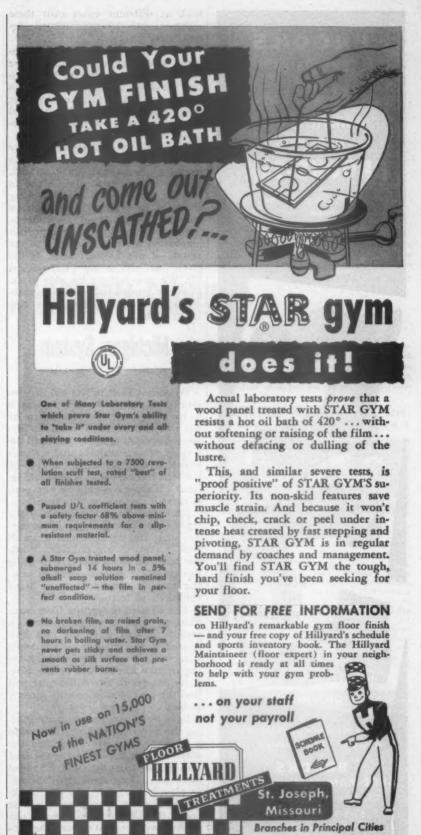
If our quarterback comes out of the huddle and sees that the defense is in a position to stop the play called, he may change the play by merely adding or subtracting up to 7. Let us assume that the quarterback's original call was play No. 32. By shouting "add 1" he could take advantage

THIS is Marty Fischbein's fifth year at Florence, a school with only 110 male students. In that period his teams have been consistent winners, compiling 276 points a year ago to his opponents 25. Prior to coming to Florence, Fischbein coached for two years at Fair Lawn, New Jersey, High School. He is a graduate of Panzer College, where he received All-American recognition.

of a hole on the weak side of the line and run play No. 33. In the same manner, if there was an opening off the strong-side tackle slot, the quarterback would shout "add 6" and the play would then become No. 38 (Diagram 6).

To take advantage of backers-up out of position, the quarterback has a quickie pass to the right end at his command by shouting "add 8 or 9." Minus 8 or 9 tells the team that the play will be a quickie pass to the weak-side end (Diagram 7). In order to fool the defense and not permit them to learn our plays, the quarter-







back at different times calls these numbers; but by pre-arranged signals, runs other plays.

If an extreme overshift is encountered, after leaving the huddle, we run an automatic reverse by shouting "divide by any number." We also have a quick kick to take advantage of a close-in defense. This is called by multiplying by any number (Diagrams 8 and 9).

With this bit of ammunition we feel that our boys do not have to bang their heads against a stone wall. We try as much as possible not to subject our boys to poor blocking angles or to overload them with an excessive repertoire of assignments.

From a coaching standpoint this innovation has proved a boon to the morale of our football team. It has given our boys a big psychological lift. We now feel we are able to exploit our opponents' weaknesses rather than have the defense one step ahead of us.

Michigan System

(Continued from page 30)

When any man in the line has his number called, he knows the play is to hit over his territory, and that he has a key block in at the hole to perform. Contrary to many post lead advocates, we do not insist that the man whose number is called always be the lead blocker. We use this rule instead, "If there is a man on you, post. If there is no man on you, lead."

Doing it this way, we find that our lead blocker always has an advantageous angle and does not have to spend time jockeying for position. When the post lead block is taught by using this principle, time is saved in practice because there are not so many variations to learn.

The element of surprise from crosscharging and looping linemen is greatly reduced when the post lead is used in this manner. If the angle charger slants to the inside, he is helping to take himself out of the play. If he charges to the outside, he will find the lead blocker coming directly at him.

In order to avoid confusion regarding the direction from which the lead is to come, we have designated the plays, I through 4, as having the lead always come from the right. The lead block will always come from the left on plays 5 through 9. The post blocker should never be confused when he knows this simple rule. It works out so that any direction toward the center may be called "in" and away from

the center may be referred to as "out". To simplify the situation, when a man is playing in the seam we consider him as being on the man closest to the center.

h

T.

go le

fı

g

fa

li

ea

li

de

OH

me

ov

Sei

pu

cer

blo

bu

He

sen

jus

Th

def

me

pas

our

rie

avo

Th

rea

sign

still

in

lect

hav

cho

Thi

exp

in g

of i

the

fens

leav

for

opti

Wh

line

ceive

Ir

for17

I

To give the check blockers as much of an advantage as possible we have set up our blocking assignments in such a manner that the defensive man, to get to the play, must cross the path of the offensive man assigned to block him. If the play is to go to the left of the check blocker, we try to arrange it so the man is on his right. Sometimes it is necessary for him to block the man on him, but there is never a time when we ask a check blocker to take a man positioned on his left if the play is to hit to the left of that blocker. The same principle applies in reverse when the play is to hit to the check blocker's right. We have found that the check blocker is able to do an effective job against cross-charging and looping linemen.

In order to see some of these principles in action, we will give the assignments for our 28 play. Only an undershifted 6-2-2-1 and an overshifted 6-2-2-1 defense will be shown. These defenses differ enough to show the "man on" and "no man on" principles we wish to demonstrate. It is not possible to have each play ideally mapped out for every defense that might be used against it, but the way our assignments are set up, we always give the players blocking angles against any standard defense from a 4-4-2-1 to an 8-3.

In plays 28 and 128, as shown in Diagrams 6 and 7, if there is a man on the right end, the right end should bump him, get to the cut-off and block. If there is no man on him, the right end should get to the cut-off and block. The right tackle should check the man on him at the line of scrimmage. If there is no man on the right tackle, he checks the first man on his right. The right guard pulls and blocks in through the hole, In an eight-man line the right guard should check the man on him or the man between him and the offensive man on his left. If there is a man on the center, the center should check him at the line of scrimmage. If there is no man on the center, he checks the first man on his right. The left guard pulls and blocks out at the hole. If there is a man on the left tackle, the left tackle should post and the left end will lead. If there is no man on the left tackle, he checks the first man on his right. If there is a man on the left tackle, the left end leads on him and the left tackle posts.

If there is no man on the left end, he blocks in on the first man to his right. The right halfback reverses, gets the ball from the fullback and leads into the 8 hole. The quarterback blocks out through the hole. The fullback gets the ball from the center, spins, fakes to the left halfback, gives to the right halfback, and fakes into the 4 hole. The left halfback fakes a 21 and goes around the right end.

t".

a

n-

est

ch

ive

in

ive

oss

go

his

for

but

ask

osi-

to

The

eck

hat

an

ing

rin-

as-

an

ver-

wn.

to

on"

ate.

play

de

t it,

set

ock-

de-

n in

man

ould

and the

t-off

ould

e of

on

first

uard

hole,

nard

r the

nsive

n on

heck

ight.

out

n the

post

there

hecks

ere is

t end

posts.

IAMS

. If

The assignments for the balanced line correspond so closely with what each man does from the unbalanced line that very few changes in assignments are required to run from both

Optional Spread

(Continued from page 24)

which may successfully shake free the deep receivers. There are many others which the wise coach may plan out according to the defenses he meets.

In Diagram 4 we see the screen pass which may be used against an over-anxious line which charges fast. Sending receivers out deep tends to pull back the secondary. Then the center or the quarterback may brush block or fake a block, go short, and button hook for a short screen pass. Here again, we have the option of sending out both of these players or just one, depending on the defense. Throwing this pass a few times will definitely slow up a charging line.

The defense must play us fundamentally man-for-man since our short passes are equally as dangerous as our deep ones. Thus, our ball-carrier, even without blocking, must avoid only one tackler in many cases. The center and quarterback must realize that if they do miss their assigned block the ball-carrier may still flip them a short pass if he is in danger of being tackled.

Diagram 5 shows the tailback selecting the running option. He must have the ability to make the correct choice as to where and when to run. This ability will be attained through experience gained in scrimmages and in games. One good block on either of the defensive linemen will shake the ball-carrier free. If a third defensive lineman charges, this will leave our center or quarterback open for the short screen pass. Again, the option rests strictly with the tailback. When the ball-carrier gets over the line of scrimmage the deep pass receivers block the men who have been covering them.

In Diagram 6 we see a means of



IN TRACK IT'S ENDURANCE THAT COUNTS

Ever since the phenomenal Nurmi, great track stars have had one outstanding characteristic in common. More than brown, more than sheer strength—it's endurance that counts on the track.

N UNIFORM FABRICS

IT'S DURABILITY THAT COUNTS



Fabrics with staying power are a "must" in athletic gear. That's why ceaches in every sport call on Kahnfast for uniforms that keep in top form season after season. You can always buy with confidence when you see the fumous red Kahnfast label.

ARTHUR KAHN CO., Inc.
444 Fourth Avenue • New York 16, N. Y.

SOUTH CAROLINA

COACHES ASSN.

COACHING SCHOOL

at the Univ. of South Carolina

Sessions hold in airconditioned Hotel Columbia

Columbia, S. C.

August 10-152

FOOTBALL

CHARLIE CALDWELL, Princeton Single Wing

JESS NEELY, Rice

T Formation

REX ENRIGHT, S. Car.

BASKETBALL

HANK IBA, Oklahoma A. & M. All phases of the game

TUITION

\$7.50 members state assn. \$15.00 non-members

Room free, meals about \$2.00 per day

HARRY HEDGEPATH

\$1623 Harrington St.

Newberry, S. C.

FREE BOOK

will help you TEACH BETTER TENNIS



Help your students play better tennis by sending for as many of these FREE booklets as you have tennis players. Written by Vinnie Richards, outstanding figure in the tennis world—holder of 30 Championships. This booklet is based on Richards' own tournament experience—illustrated with 36 fast action shots and photos of every grip. Mail this coupon now.

CLIP COUPON - MAIL TODAY

SUMOP THE & RUBER CORP., Bept. 24 500 Fifth Ava., New York City Send me______FREE Dunlop tennis books: "How Quantity TO IMPROVE YOUR TENNIS GAME" by Vinnie Richards

vame___

NESS CONTRACTOR

the New Dunlop

Championship TENNIS B. LLS

stopping fast-charging linemen. After the snap, the wingback runs parallel with the line of scrimmage and receives a screen pass behind the line. Then both the quarterback and the center allow the charging linemen to seep through. The quarterback leads the play, as diagrammed, while the center blocks the defender who is intent on watching the wingback. Then the left end fakes downfield and blocks his man out. This play works effectively in stopping a fast-charging line, or at least in reducing the number of charging defenders.

There are many other plays which may be developed out of this formation, but a great number of plays are not really necessary. The strength of this spread formation rests in its many options. A deep pass is effective against a team that does not play us man-for-man; the screen pass is effective against the charging line; and the runs work well against linemen who wait and are, therefore, an easy target for our blockers.

Undoubtedly this formation does require a great deal of running by all six offensive men but; conversely, the defensive players must run just as much to keep up with the offense. While practicing this formation we found it a wonderful conditioner,

thus killing two birds with one stone. We have found it effective to rotate our backs and make frequent substitutions. It does not take an outstanding back to make this formation successful although one does help, as he would in any formation.

An example of what may happen was brought to light in one of our games. One of our backs was a good runner but not much of a long passer. The defensive line was ordered to charge him quickly in order to stop his running. After one play in which this situation arose, our tailback, sensing the strategy, faked a run and threw a short screen pass to our quarterback who broke into the clear. This tended to slow down the charging linemen and strengthened our running attack again.

We do not contend that this formation should be the only one used by a six-man team. This spread was used in conjunction with our T for-mation since there are situations where the spread formation is not practical. As we mentioned previously, this formation is easily and quick-ly taught, and thus adds variety to the offense. The modern trend in both six-man and eleven-man football is to increase the variety of offensive formations thrown at the defense.

Very rarely does one see a team which uses only one offensive formation throughout the entire game. Even a team that uses the straight T has its flankers and men in motion which changes the formation. This spread may be just what some six-man football coaches need to lend variety to their offensive attack.

m

pe

wl

tro

set

les.

era

on

ces

thu

fev

ma

ave

itie

Mo

the

can

flig

oth

elir

inst

nar

flig

con

flex

scho

hav

plac

with for such fleb

han a la bilit its g

tour fligh

vers

seed

the

syste

tion

ed in grow years six i vear

only first

posed

seaso

tem !

sport desira publi

vate been our w

use!

for M

It to ha

Ei

The Flight System

(Continued from page 26)

ommended here appeals to the majority of participants, for most players like to compete with others in their own class so that they may have an even chance to win. People usually take part in activities in which they may hope to succeed.

Second, some people would consider the labeling of players an advantage since the difference in players becomes widely known.

Third, the flight system encourages greater activity on the club ladder. This increased activity is worthwhile, for in many places the ladder is stagnant. This system, as outlined, is one of the best programs to use in promoting the serious play needed in most net groups.

A fourth advantage of the flight



system is that it makes the tournament more interesting. Every match is likely to be close, and both spectators and participants enjoy close com-petitions. There are no "breathers" in which the stronger player severely trounces the weaker opponent. Upsets, however, still occur frequently.

ich

ion

n a

its ich ead

oot-

to

ma-

lay-

in

ave

ally

hey

on-

ad-

lay-

iges ier.

ile,

ed.

use

ded

ght

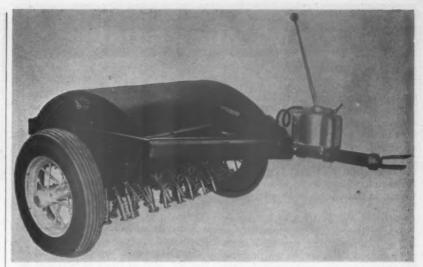
Fifth, the flight system requires less time and fewer courts. With several small tournaments instead of one large event, the flight system necessitates a fewer number of matches, thus accounting for less time and fewer courts required. Having fewer matches is of real importance in the average tennis situation where facilities and time are always significant.

Sixth, the flight system is flexible. More divisions may be added to suit the ability groups. The size of flights can be altered if necessary. Also, the flight system may be combined with other types of events such as double elimination and novice events. For instance, a double elimination tournament may be held in one of the flights when only a few entries are competing. Furthermore, the system is flexible enough to adapt easily to a school or playground situation. We have used it with success in both places. Also, the system has been used with favorable results in tournaments for other similar individual activities such as badminton, horseshoes, shuffleboard, table tennis, squash, and handball where the organization of a ladder is appropriate. The flexibility of the flight system is one of its greatest assets.

The seventh advantage is that a tournament committee which uses the flight system eliminates possible adverse criticism on the designation of seedings. The committee simply uses the current rankings on the ladder.

Eighth and last, the recommended system stimulates greater participation each year. It has always happened in our experience that the flights grow in size and number in successive years. For instance, if there were only six in a flight one year, the following year eight or ten would compete. If only two flights were sponsored the first year, usually three flights composed the championship the second season.

It is indeed uncommon for a system to have so much versatility. This system has proved itself in a variety of sports. Furthermore, it has produced desirable results when used in schools, public recreation programs, and private clubs. The flight system has been the answer to a genuine need in our work. We recommend it for your use!



For the best in aerifyinguse the AERIFIER

Fast, effective turf aerification is assured with the Aerifier. Either the tractordrawn model or the self-powered Aerifier is suitable for athletic field use. Adjustable cultivation depth is an Aerifier feature. Aerifiers may be equipped with $\frac{1}{2}$ ", $\frac{3}{4}$ " or 1" diameter spoons. Choose the spoon size that will work best under your soil conditions.

The Aerifier makes six holes per square foot. A wire coil around each spoon holds turf down and prevents tearing even though holes are close-spaced.

The Aerifier's special patented spoon design provides "cultivating action", which benefits the soil three ways. It removes cores of soil so surrounding packed soil has room to expand. It leaves openings from the surface down to the grass root zone. It loosens the walls of the cavities so roots can spread out and develop fully. Only the Aerifier makes this three-fold improvement of the soil.

The triple effect of "cultivating action" encourages root growth—the big factor in improving turf. A good root system is needed to take up the foods and moisture for top growth. Deep-rooted turf is not easily torn up in use; greater wear-resistance is a good characteristic for athletic field turf.

Where turf areas are used in the spring, soil compaction takes place quickly. The moist soil packs easily. Aerify several times during the spring season, while soil moisture is favorable for cultivation and grass is growing actively. It isn't too late to include aerification in your program this season.

Write to us today for the name of your Aerifier distributor.

West Point Lawn Products

*Reg. U. S. Pat. Off. Copyright 1952 by West Point Lawn Products

West Point, Pa.

Pat. No. 2,580,238

BASEBALL AND SPRING SPORTS

RYAN'S H. & R.

DRY LINE MARKERS ACCLAIMED AT THE N.C.A.A. AT SAN FRANCISCO * Force Feed — Instant Shutoff — 100 lbs. capacity.

& Exsy to fill and

No Brushes or Screens to cleg. SAVES TIME AND MATERIAL

Send to Dept. H for booklet on four other models H. & R. MFG. CO., LOS ANGELES 34, CALIF.



NOBODY CAN BEAT OUR PRICES!

Write for Illustrated Catalogue



NAL

Coaching Prep Schools

(Continued from page 22)

having selected and placed the best eleven players, some time must be devoted to position play so that new men in new positions may become accustomed to their new roles. The team has reached the point where work on team play may begin. Now is the time to start to build an offense which, in time, leads to another problem.

Problem No. 4—Meeting Changing Defenses. In solving this problem, we use a T offense and oppose it with six standard defenses. As we progress in this solution, rules will evolve around which the offense will operate. We will start with the basic dive play by the right halfback.

Rule No. 1. The coach should teach from a standard 6-2-2-1 with the on-side defensive guard as G (Diagram

Rule No. 2. In Diagram 2, against a 5-3-2-1, G is considered to be the middle linebacker. The ends block

in the cut-off, and the center always blocks a man in front of him away from the play. All of the other players remain in the same positions.

Rule No. 3. Against a 5-4-2 the "inside on-side" linebacker is G (Diagram 3)

Rule No. 4. If a defensive player lines up in the hole, cross block. Against a 7-1-2-1 the linebacker is G (Diagram 4).

Now, let us look at a few other defenses and apply the rules that govern.

In Diagram 5, the center is blocking the man in front of him and the ends are in the cut-off.

Diagram 6 shows an overshifted 6-2-2-1. The defense is seven right—five left. Rule No. 2 governs the center, and Rule No. 4 governs the on-side guard. The solutions to the various standard defenses may be applied to all offensive blocking assignments. With the problem of meeting the changing defenses out of the way, we

may now proceed to our final problems; namely, the problems of defense. The key to solving this question lies in simplicity. One, two or three defenses with simple variations are preferable to a large number of helter-skelter maneuvers. Two standard defenses with simple variations are shown. To these may be added variations that might be indicated from scouting reports. We will defend against a standard T as is shown in the offensive examples.

sie

no

of

ba T

sh

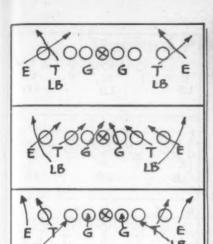
ou in-

ou pas

sid

In defending against a standard T, (Diagram 7), the ends should observe strict territorial responsibility. They should help on the inside, but





de

ies-

OT ons

of

nd-

ons

ded

ted

de-

ard

ob-

itv.

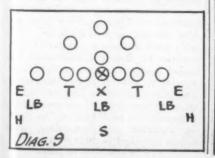
but

are definitely responsible to the outside. The tackles should be in the gap and fight resistance. They should not penetrate too deep, if at all. Each of the tackles should defend the ground he is on. The guards should play head on and not cross. The linebackers are the auxiliary linemen. They should cover the holes to their front, left, and right. On passes, they should back into hook shots and then cover to the outside. The halfbacks should be six to eight yards deep and outside the offensive ends. They should cover running plays from the outside. On passes they take the deep outside receiver and cover the man-

DIAG.8

The B variations are shown in Dia-

In the play shown in Diagram 9. the ends crash at the fullback and have only inside responsibility. The tackles should drive to the seam and seal. In the case of the center, he should play head on and hold ground. The outside linebackers have outside running responsibility against passes back to hook spots and then outside. Middle linebackers should check holes in front and to either side. They should also check against passes back into the center area. The halfbacks cover runs from the out-



Important Books

FOOTBALL KICKING TECHNIQUES

A Player's Guide to Better Punting, Place Kicking and Drop **Kicking**

By KEN STRONG and EMIL E. BRODBECK. 133 pages, \$3.25.

Here, for the first time, motion picture studies of football kicking techniques have been combined with text in a book that teaches all aspects of kicking in a simple and easily understood manner.

WRESTLING

By HAROLD E. KENNEY, University of Illinois and GLENN C. LAW. McGraw-Hill Series in Health Education, Physical Education, and Recreation. 171 pages, \$3.00.

Covers wrestling from the fundamentals to the more complicated holds and maneuvers. All offenses are organized into steps and these steps are listed in outline form. Over 100 excellent half-tone illustrations are included.

FUNDAMENTALS OF TRACK AND FIELD COACHING

By RICHARD I. MILLER, University of Illinois. McGraw-Hill Series in Health Education, Physical Education. and Recreation. In press.

A consideration of the physical, mental, and emotional makeup of the high school athlete as it varies from that of older students, and the consequent development of techniques, teaching methods, levels of performance, and improvement gauged to his particular needs.

SWIMMING

By JOHN A. TORNEY, JR., University of Washington. 316 pages, \$4.00.

A text and reference book which includes the major aspects of a complete aquatic program, dealing with swimming techniques, teaching methods, program administration, life-saving and team activities, and safety programs for school and community. The book is unusually well illustrated.

Send for copies on approval

McGRAW-HILL BOOK COMPANY, Inc. 330 West 42nd Street . New York 18, N. Y.

THE GRISWOLD TRAMPOLINE BED

World's finest woven webbing bed

Custom made for any trampoline Send for Descriptive Circular

TRAMPOLINE TUMBLING

By LARRY GRISWOLD Teach safely and progressively Learn with confidence

A complete and comprehensive manual for teacher and student with a special chapter on body mechanics

Four-color illustrations Spot index, 120 pages Attractively bound \$3.75

LARRY GRISWOLD 1812 Second Ave., S.E.

Codar Rapids

Third Annual COACHING SCHOOL

Wisconsin St. Teachers College, River Falls, Wisc.

27 miles east of St. Paul June 19-21 - Tuition \$15 (includes golf picnic, Booster Club Smorgusbord and Coaching School dinner) STAFF

Football - FOREST EVASHEVSKI, lowa Basketball — HARRY COMBES, Illinois Training — LLOYD STEIN, Minnesota Plus HIGH SCHOOL COACHES

Write: JOE HOY

Wisconsin State Teachers Cel River Fulls

NAL



Louisiana State University Marquette University Denver Public Schools Wichita Falls, Tex., Sr. High Ft. Smith, Ark., Public Schools **McGill University** University of North Carolina Goshen College University of Chattanooga College of William and Mary Roosevelt High, Honolulu and hundreds of others!

easily" students



price-bracket. It will pay you to consider Master.

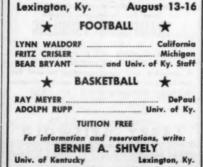
Write today, to Dept. 16



MASTER NO. 1500 Long time school fav-orite. Constructed like Nò. 1525, but without trol. Master is also worldfamous for laminated padlocks.

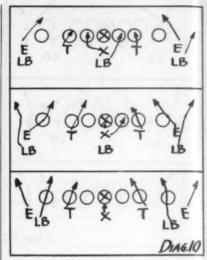
Master Jock Company, Milwaukee. Wis. . World's Leading Padlock Wanufactor





UNIVERSITY OF KENTUCKY

COACHING SCHOOL



side. They should cover the outside deep in passing and the man-in-motion. The safety should cover inside on runs and inside deep on passes. If a halfback vacates to take the manin-motion, the safety takes his place.

To these basic defenses, with variations, may be added slanting and looping lines, and a great number of other devices. However, the above will suffice if it is well-learned and

vigorously used.

In conclusion, one other problem might be mentioned, and that is relations with the remainder of the faculty. In solving this problem we suggest the use of good common sense. The coaches should understand that they, too, have their problems, and it is part of the job of the coaching staff to be considerate and helpful.

Sequoia High School

(Continued from page 11)

swim a minimum of 50 yards. This is a regulation of many years standing, and is highly commended by the military authorities. Games such as volleyball, badminton, tennis, golf, and many others are stressed for these rea-

4. The program should develop qualities of good citizenship. It is believed at Sequoia that the qualities of character go hand in hand with physical well-being. They also feel that the attributes of leadership come only when all boys are granted opportunities for frequent leadership. The squad leader, captains, athletic commissioners, officers of various groups, and others are given constant leadership opportunity, and are granted the responsibility and freedom to develop initiative in performing work which they feel is their own.

(To be concluded in June)

for

Stanford Pitching Chart

(Continued from bage 36)

two hits were made off high pitches, 14 off middle pitches and six off low ball pitching. This information is revealing, and while it may not be the average, it should not be too far

B

В

16.10

utside

n-mo-

inside passes.

place.

varialooper of above and

oblem at is

of the m we

sense.

l that

, and

ching elpful.

This is

nding,

e mili-

volley-, and

se rea-

evelop

is be-

alities

with

o feel

come

oppor-. The

comroups, leadered the

develwork

URNAL

Chart IV is an interesting study in pitching and batting. Perhaps there are not enough cases to show proper validity; however, the figures show a fairly true picture of the batter when hitting the fast ball, the curve, a first ball hitter, a hitter hitting ahead, behind, and even in count. A chart of this nature could be used to build confidence in the hitter as a certain

CHART III

					CHA	RT III								
Game														
San Jose														
4-13-51			1	2	3	4	5	.6	7	8	9	10	Total	als
Player	Inning		P-H	P-H	P-H	P-H	P-H	P-H	P-H	P-H	P-H	P-H	Pitches	- His
		Н		3-0	1-0	5-0	1-0						10	0
		M	3-1	2-0	3-0	2-0	2-0	3-0					15	1
Osenbaugh	Fast Ball	L	6-0	1-0	1-0	6-2	2-0	6-0					22	_ 2
		H		1-0	1-0		1-0						3	0
-		M	2-0	1-0	1-0	2-0	2-0	1-0					10	0
	Curve Ball	H	2-0	1-0	1-0	2-0		2-0				0	3	0
		M			1-0			2-0					0	0
	Change	L											0	0
-		Н		1-0	1-0								2	0
		M					1-0	1-0					2	0
	X-Fire	L		1-0									1	0
		Н							5-0				5	0
61	7 R-II	M							5-3 8-1				5	3
Chez	Fast Ball	H				-			0-1				0	0
		M							1-0				1	0
	Curve Ball	L							2-0				2	0
		Н											0	0
		AA											0	0
	Change	L							4-0				- 4	0
		H											0	0
	X-Fire	L											0	0
		Н								2-0	5-0	-	7	0
		M							1-0	1-1	1-0		3	1
Murphy	Fast Ball	L								2-0	3-1		5	1
		H									2-0		2	0
	C PII	M							1-0	2-0	3-0		6	0
	Curve Ball	H								2-0	2-0	_	0	0
		M											0	0
-	Change	L											0	0
		H		-									0	0
		M											0	0
	X-Fire	L											0	0
		H	3-1	2-0	3-0	2-0		1-0	1-1	1-0			13	2
Collins	Fast Ball	M	6-0	3-0	4-0 3-0	2-1	4-1	11-5	2-0	1-0			35 18	7 2
Collins	rasi bali	Н	3-0	3-0	1-0	2-1	1-0	4-0	2-0	2-0			12	0
		M	4-2	2-0	1-0	1-0	2-0	3-0	1-0	1-0			15	2
	Curve Ball	L	-	2-0	2-0	2-0		5-0	2-0				13	0
		H	1-0	1-0		,		1-0					3	0
	-	M											0	0
	Change	L								1-0			1	0
		H											0	0
	X-Fire	L											0	0
		Н		-							-			-
		M												
	Fast Ball	L							- 1	1				
		H				Key	17a - P				High			
	Curve Ball	M L				P-1	itches Hite			M-1	Middl			
	20110 0411					*****								

COACHES.... **GIVE A BOOST TO** YOUR BUDGET and BUILD A STRONG SCHOOL SPIRIT ...

Sponsor the sale of Celco's Unique booster jackets in your school.

Do as many schools are doing—increase your athletic budget by selling booster jackets to your students.

Get the school and community behind your team. Let them show that they are loyal boosters.

Made of finest pin wale corduray * zipper front * slash pockets * combination of school colors * printed rayon satin lining * beautiful



Let us send you a sample swatch in your school selers. Write today sending colors—ne obligation.

325 S. MARKET STREET CHICAGO 6, ILLINOIS

WISCONSIN

HIGH SCHOOL COACHES ASSN.

Annual Coaching School 分分. AUGUST 18-22 公公 University of Wisconsin, Madison, Wisc.

● FOOTBALL STAFF ●

CHARLIE CALDWELL Princeton - Single Wing IVY WILLIAMSON

And staff of the Univ. of Wisconsin BASKETBALL STAFF

CLIPF WELLS Tulane University BUD FOSTER University of Wisconsin

BASEBALL

ART "DYNIE" MANSFIELD University of Wisconsin

● Track, Wrestling ● University of Wisconsin Staff

* FEATURES **

Very reasonable room and board on university nampus. Grand opening party at Park Hetel, Evening movies and round table discussi-Plenty of feetball and backstball demons

tiens.

Golf tournament and dinner with planty of prizes for all.

Complete clinic proceedings, including diagrams, will be mimographed.

TUITION

\$5.00 for members, \$10.00 for others HAROLD A. METZEN, Director 1809 Madison St., Madison, Wisc.



With some highly intriguing developments in progress at NAHMA, Michigan. type hitter; e.g., a good hitter when behind in count. Few hitters receive this type of information on themselves; this could be of great assistance to them. Pitchers would be wise to study this chart carefully. The highest averages seemed to be on the fast ball and first ball hitters. A logical conclusion could be that a few more curve balls on the first pitch might produce more successful seasons for more pitchers.

Chart V shows the number of times in each game that the Stanford pitchers and their opponents were ahead, behind, and even in count. This is an eye opener to pitchers who appreciate the importance of being ahead of the hitter in order to make the most of pitching strategy. If pitchers would study this information and all of the other information taken from Chart I, they could not help but im-

prove if they have the desire to do so.

The last chart (6) demonstrates some convincing facts about the comparative number of hits off fast balls and curve balls. The advantages of low ball pitching are also brought out in this chart, while the disadvantages of the middle pitch are clearly shown. Very poor control in the change-of-pace, which is an excellent coaching point for the pitchers, is shown. There were 200 change-of-pace pitches

NEW YORK STATE Coaching School

Hamilton College Clinton, N. Y.

August 25 thru 28, 1952

FOOTBALL

BASKETBALL

EVERETT CASE N. Car. State

SIX-MAN FOOTBALL

SOCCER

TRAINING

BASEBALL

For further information

write:
PHILIP J. HAMMES, Director

Proctor High School Utica, N. Y.

CHART IV

Player		San Jose 2-27	U.S.F.	Berkovich 3-3	El Toro	U.S.F. 3-12	Compton 3-24	Santa Barbara 3-27	U.S.C.	U.S.C. 3-31	California 4-6	Santa Clara 4-7 1st	Santa Clara 4.7 2nd	S.F.S.C.	San Jose 4-13	Alumni 414	U.S.F.	U.S.C.	Santa Clara 4-21	Santa Barbara 4-24	U.C.L.A.	U.C.L.A. 4-28	California 5-5	California 5-12	Batting Average
Cameron	Fast Ball	0-1	1-2	0-5	0-2	1-2	1-5	1-5	2-4	3-5	0-2	2-3	1-4	2-3	2-4	1-4	1-2	0-2	2-4	0-4	0-4	0-1	0-2	-	.286
	Curve Ball	0-1				0-2			0-1		0-1			0-1		0-1	1-1					0-1	0-3	1-3	.133
	Change	TI			- 11						*				0-1			0-1						0-1	.000
	X-Fire																								.000
	1st Ball Hitter			0-1			0-1	0-1	2-2		0-1	1-1			1-1		1-1	0-2	0-1		0-1		0-1		.357
	Ahead Hitter			0-1	0-1		1:1		0-1	0-1				1-2	0-1	1-1				0-2	0-1				.273
	Behind Hitter	0-1	1-2	0-1		0-2	0-1	1-3	0-3	1-1	0-2	0-1	1-2	1-2	1-2	0-2	1-1	0-1	1-2	0-1	0-1	0-1	0-3	1-4	.231
	Even Count	0-1		0-3	0-1	0-2	0-3	2-2	2-3	2-3	0-1	2-2	0-2		1-2	0-2	1-2	0-2	1-2	0-1	0-2	0-1	0-2		.237
Abrahamson	Fost Ball	2-3	2-3	2-4	1-3	0-2	2-2	1-3	1-4	2-5	1-1	1-5	0-3	1-5	2-3	0-3	0-3	0-2	3-5	0-2	0-2	0-2	1-4	0-2	.310
	Curve Ball	0-1	1-2					1-1			0-2		0-1		1-1	0-2	0-1				0-1			0-2	.214
	Change			1-1																					1.000
	X-Fire																	0-1							.000
	1st Ball Hitter			0-1	1-2	0-1	1-1		0-2	1-1	0-1	1-2	0-2	0-1	1-1	0-1	0-2						0-1		.250
	Ahead Hitter			1-2	0-1			1-1						1-1	1-1	0-1	0-1	0-1	1-2	0-1	0-2		0-1		.333
	Behind Hitter	1-1	1-3	1-1			1-1	1-3	1-2	1-4	0-1	0-1	0-2		1-2			0-2	1-1	0-1	0-1	0-2	1-3	0-1	.313
	Even Count	1-3	1-2	1-2	1-2	0-2	1-1		0-2	1-1	1-2	1-4	0-2	0-4	1-1	0-4	0-3		0-2				0-1	0-3	.220
Clegg	Fast Ball	1-2	1-5	3-3	0-3	0-3	1-2	1-2	2-4	0-2	0.3	0-3	1-3	2-3	1-4	2-3	1-4	1-3	2-3	1-3	1-2				.350
	Curve Ball	0-1			0-1		0-1	0-1		1-1		0-1		1-2							0-2		0-3	0-3	.123
	Change			1-1		0-1							0-1						0-1			0-1	0-1	0-1	.143
	X-Fire										1														.000
	1st Ball Hitter	1-1		1-1			0-1		1-2				0-2	1-1					1-1			0-1	0-1	0-1	.417
	Ahead Hitter		0-2			0-2	1-2	1-1	1-1	0-2		0-1	0-1	2-2	1-1	0-1	1-2		1-2	0-2		-	0-1		.348
	Behind Hitter		1-3	2-2	0-3	0-1			0-1	1-1	0-2	0-2		0-2	0-2		0-1				1-3		0-2	0-1	.192
	Even Count	1-3		3-3	0-1	0-1	0-1	0-2	1-2		0-1	0-1	1-3	1-1	1-1	2-2	0-1	1-3	1-2	1-1	0-1	0-1	0-1	0-3	.371

Ahead Count — 1-0, 2-0, 3-0, 3-1: Behind Count — 0-1, 0-2, 1-2, 2-2: Even Count — 0-0, 1-1, 2-1, 3-2:

CHART VI

1. TOTAL SEASON AVERAGES 24 GAMES. (Number of pitches divided into number of hits.)

STANFORD VARSITY PITCHERS

FAST	BALL	CURVE BALL		CHANGE	. 671.7	X-FIRE	
Pitches	2,385	Pitches	852	Pitches	123	Pitches	36
Hits	141	Hits	21	Hits	9	Hits	2
Average	.0591	Average	.0246	Average	.0732	Average	.0356

OPPONENT PITCHERS

FAST	BALL		CURVE BA	LL		CHANGE			X-FIRE	
Pitches		2,151	Pitches	844	Pitches		133	Pitches		19
Hits			Hits	23	Hits		7	Hits		0
Average		.0762	Average	.0273	Average		.0526	Average		.0000

2. TOTAL AVERAGES OF GAMES FROM 3-12-51 to 5-19-51 WITH HIGH, MIDDLE, LOW TABULATION

STANFORD VARSITY PITCHERS

	FAST	BALL	1	CU	IRVE BA	ALL		CHANG	E		X-FIRE	
	Н	M	L	Н	M	L	Н	M	L	H	M	L
Pitches	616	672	560	186	262	275	24	32	24	17	25	14
Hits	18	66	28	4	13	2	3	14	0	1	1	0
Ave.	.0292		.0500	.0214	.0410	.0072	.1250	.1250	.0000	.0588	.0400	.0000

OPPONENT PITCHERS

	FAST	BALL		CL	RVE BA	ALL I		CHANG	E		X-FIRE	
	Н	M	L	H	M	L	н	M	1	H	M	L
Pitches	492	745	513	155	301	238	36	60	24	6	9	4
Hits	23	94	19	2	17	3	1	3	0	0	0	0
	.0467	.1262	.0370	.0129	.0564	.0126	.0273	.0500	.0000	.0000	.0000	.0000

thrown by Stanford and opposing pitchers. Of these 152 were high or belt high pitches. This showed our pitchers there was much work to be

I. Y.

souri

Univ

State

Average

Batting

.133

.000

000

.357

.273

231

.237

.310

.214

1.000

000

.250

.335

.313

.220

350

.123

.143

.000

.417

.348

.192

.371

NAL

2

In conclusion, we feel that these

charts are an excellent medium for creating more interest in baseball, for teaching more baseball, and through this research, creating more objective information on pitching.

Olympic Prospects

(Continued from page 41)

did not defeat a Finnish entrant until the final vault. This year it should be a much easier task. The United States may draw on three men, each of whom has vaulted over 15 feet in the air, while the other nations will be fortunate if they are able to produce a 14-foot vaulter.

Last year's best non-United States vault was credited to Petr Denisenko of the U.S.S.R. who went over the bar at 14 feet, 4 inches at Kiev for a new Russian record. Denisenko is one of the Soviet's decathlon aces who has recently started to concentrate on the vault. However, he is not consistent at 14 feet, 4 inches, and has been defeated frequently at lower figures by a hard-working Ukranian, Vladimir Brazhnik. Brazhnik won the 1951 all-Russia championship at 14 feet, 1/8

According to the continental critics, however, the man to watch as a threat to the Americans, is Iceland's Torfi Bryngeirsson. Bryngeirsson scaled 14 feet, 21/8 inches recently and has the form to go even higher. If he is able to get in sufficient workouts in his

homeland's Arctic climate, he might someday be Europe's first 15-foot

European champion and record holder at present is the veteran Ragnar Lundberg of Sweden. His 14 foot, 51/4 inch vault in 1950 is the best ever negotiated by a non-American, but he slipped 4 inches last year and may decline further by the time the Olympics start. On the way up is Victor Sillon, representing France. Sillon, who became the first member of a Latin country to hit 14 feet last July when he soared over 14 feet, 1 inch, defeated the No. 4 vaulter of the United States, Walt Jensen, twice last summer. Like so many members of the French national team, Sillon does not come from France, but from the island of Martinique in the West

Russia will probably bring to Helsinki the grand old man of the vault pits, Nikolay Ozolin, who is now past his fortieth birthday, but he will stand little chance of placing since he is now able to top only 13 feet, 6 inches or thereabouts.



Study Under the Nation's Top Coaches at the Seventh Annual

VIRGINIA STATE COLLEGE **COACHING SCHOOL JULY 7 - 11**

FOOTBALL

SPLIT T FORMATION JIM TATUM





UNIV. OF MARYLAND Undefeated Conqueror of the Country's Number One Team in the 1952 SUGAR BOWL

Consecutive Champions

REEP UP WITH THE LATEST COACHING TECHNIQUES Relax as Yes Learn as the Campus of Virginia State College Potersburg, Virginia Tuition—\$15.00—One Samester Hour of Graduate Credit Granbed Boom and Board — \$2.00 per day

For Complete Details Write to: S. R. "Sal" Hall—Director of Coaching School

BASKETBALL CLAIR BEE



LONG ISLAND UNIVERSITY
World's Foremost Author of Books on Baskethall



The new process of growing grass developed at the University of Minnesota, which saved thousands of dollars formerly spent for restoring turf on their football fields, is available to every institution.

By growing grass with mechanical aeration, you not only get a vigorous beautiful football field, but you also cut your seed, fertilizer and water bills in half and get top dressing at no cost.

Leading schools and colleges, over 300 Country Clubs, large industrial plants and thousands of home owners are successfully growing grass mechanically. Send for Bulletin which tells exactly how to do it.

SOILAIRE INDUSTRIES

1200 Second Avenue South

Minneapolis 3, Minnesota

With 11/2 h.p. B&S motor.

THE MECHANICAL EARTHWORM LINE

Over 75 Distributors in the U.S. and Canada

H. S. COACHING SCHOOL

AUGUST 19 to 23

Dutch Meyer, T.C.U.
B A S K E T B A L L

Ben Carnivale, Navy TRACK, BASEBALL, TRAINING

TUITION
State Coaches \$5; Others \$10
For further information Write:

N. C. MORRIS, Director

1532 Madison

Denver 6, Colorado

TRAMPOLET: The Springboard to Fun. You saw it used and heard it described in the Grantland Rice Sport Light Film, "TOP FLIGHT TUMBLING."

WEB SAFETY BELT: Adjustable front and rear for perfect "D" ring alignment. Self-forming to contour of the body. Light and comfortable.

UNICYCLE: Riding a Unicycle is Fascinating. Write for free illustrated literature describing materials listed

SIDLINGER PRODUCTS CO

3514 Elm Ave., S. E. Cedar Rapids, Iowa Name TRAMPOLET Reg. U. S. Patent Office

America's three stand-out hopes. Robert E. Richards, Don Laz, and Don Cooper, all vaulted over 15 feet last spring and are in that neighborhood again this year. Until last year, only one man in the one-hundredyear history of the event had vaulted over 15 feet. Then in February, Richards managed the feat indoors and a month later had pushed his personal ceiling up to 15 feet, 33/4 inches still indoors off springy board runways. Cooper, a University of Nebraska student, was the second man in history to accomplish the 15-foot vault outdoors from a regulation cinder runway. On April 21 at Lawrence. Kansas, he vaulted over 15 feet, 1/8 inch. Two hours later on the same day in Los Angeles, Laz, vaulting for the University of Illinois, did 15 feet, 13/4 inches. Richards registered 15 feet, 1/2 inch in his first outdoor vault in Denver three weeks later, then went on to defeat both Laz and Cooper when they met, and remained undefeated for the year.

Richards is a bundle of muscles, nervous energy, and determination and he may take the Olympic title from Laz and Cooper, both of whom are taller and faster than he is, because he will not allow himself to lose. Richards is aiming not only for the Olympic pole vault title and the Olympic decathlon title, but also for the world record in the vault, which is held by the incomparable Cornelius Warmerdam, who cleared 15 feet on 43 occasions from 1940 to 1944, and who boosted the human vault ceiling to 15 feet, 73/4 inches.

11

t

tl

b

tı

b

W

b

B

C

0

B

V

fo

fi

B

R

0

di

fo

America has other good men in this event such as Walt Jensen, Bobby Smith, George Mattos, Dick Coleman, Dick Shivers, and Jerry Poucher. Thus far, none of these men has vaulted 15 feet.

Without hesitating, we will nominate: 1. Richards (U.S.A.); 2. Laz (U.S.A.); 3. Cooper (U.S.A.); 4. Bryngeirsson (Iceland); 5. Lundberg (Sweden); 6. Sillon (France).

800 Meters

Tuesday will also bring the 800meter final. This half-mile test of speed, strategy, and endurance may produce one of the most exciting races in history.

Whitfield, a product of Jefferson High School, Los Angeles, Ohio State University, and the United States Air Force is the principal contender in this race. He is defending the Olympic 800-meter title, is the holder of the Olympic record, and co-holder of the world record for the comparable English distance, 880-yards. Since

Whitfield's top competition is still Arthur Wint, whom he defeated at London in 1948, and since the intervening four years and 30 bombing missions over Korea do not seem to have slowed him up, it is logical to assume that Whitfield may successfully defend his title.

nd

eet

Dr-

ar.

d-

ed

h-

nd

m-

m-

as.

in ilt

er

ce.

1/8

ne

et.

15 alt

en

D.

ın-

es.

on tle

m

oe-

to

or

he

or

ch

li-

190

14.

ult

nis

by

le-

er.

nas

ni-

,27

m-

erg

00-

of

ay

ng

On

ate

Air

in

m-

of

of

ble

AL

However, it may be that Wint, the 6-foot, 5-inch Jamaican with the powerful stride, is faster now than when he chased Whitfield to the Olympic record at Wembly Stadium. Since that day both men have run faster races than the 1 minute, 49.2 seconds that set the record. In 1950 Whitfield turned in his best effort, 1 minute, 48.5 seconds for 800 meters. Last summer Wint ran 1:48.9.

A young Norwegian, Auden Boysen, was clocked in 1:48.7 during the summer of 1950. This gave rise to the belief that he might be the next Olympic champion in the 800, but two weeks later he placed fifth in the European Championships in much slower time, and in 1951 he could do no better than 1:50.4.

Urban Cleve and Heinz Ulzeheimer of Germany appear to be improving rapidly, and would like to secure for the Fatherland, (West Germany), the Olympic title which Rudolf Harbig, world record holder for 800 meters at 1:46.6, was deprived of in 1940 by the march into Poland and subsequent events.

Also in the thick of it will probably be Patrick El Mabrouk of France by way of Algiers; Britain's John Parlett, the European champion who has a blazing sprint finish; Parisian sports writer Marcel Hansenne who might try another comeback; and Erik Wolfbrandt of Sweden, a quarter-miler who decided to run another lap. Russian champion, Pyotr Chevgun, would be out of his depth in this company.

Representing the United States along with Whitfield, should be John Barnes and Roscoe Browne. Barnes, a student at Occidental College in California, can boast of two victories over Whitfield in the past two years, a statement no other man can make. Browne is a professor at Lincoln University, and he did 1:49.3 in a race at Paris last summer.

Timidly, we make the following forecast: 1. Wint (Jamaica); 2. Whitfield (U.S.A.); 3. Barnes (U.S.A.); 4. Browne (U.S.A.); 5. Parlett (Great Britain); 6. Cleve (Germany).

Discus Throw

Italy may win its second straight Olympic discus title if Fortune Gordien is unable to regain his top form



Better Athletic Goods Dealers Usually FEATURE ADLER . . . or write for nearest Adler headquarters

THE ADLER COMPANY . CINCINNATI 14, OHIO



UTAH COACHES ASSOC. Annual Coaching School AUGUST 11-16 — SALT LAKE CITY

FOOTBALL STAFF
WALTER J. ASCHENBACH
New Trier H. S., Winnetka, III.
E. P. "CHINK" COLEMAN

St. Mary's H. S., Phoenix, Ariz.

BASKETBALL STAFF

PAUL MOON
Devenport, lowe, H. S.
ART BECKNER
Richmond, Ind., H. S.

TRAINING STAFF
 R. "KICKAPOO" LOGAN
 III-Star Football-Basketball

All-Star Football-Basketball Games \$10.00 for members; \$15.00 for non-members Write: LEE LISTON, Kaysville, Utah

ADELPHI COLLEGE COACHING SCHOOL

Formerly New York Basketball Coaching School

AUGUST 4-5-6, 1952

The Most Outstanding Basketball School in the East

STAFF

- HARRY COMBES
- BIG TEN CHAMPIONS

University of Illinois

- ROYNER GREENE

Cornell University

- · RICHARD CRAWLEY
- EXPONENT OF DOUBLE PIVOT

 LEY Oyster Bay, N. Y., High School
 3 CONSECUTIVE NASSAU COUNTY TITLES
- EDWARD McCLUSKEY Farre
 1952 PENNSYLVANIA STATE CHAMPIONS
 - Farrell, Pa., High School
- JOHN F. CONDON Dir. of Public Relations, New York Athletic Club
 SPORTS PUBLICITY
- . JOHN SILAN

Kutztown, Pa., High School

1952 Runner-Up for Class B state championship

OTHERS TO BE ANNOUNCED

Attend as part of your summer vacation: 30 minutes from the heart of Manhattan, Polo Grounds, Yankee Stadium and Ebbets Field. 15 minutes from Roosevelt Raceway. Swimming and Tennis on campus.

TUITION - \$15.00

Includes room, set of notes.

FOR COMPLETE INFORMATION WRITE: CO-DIRECTORS

John E. Sipos R. L. Simpson High School

Huntington, L. I., New York

George E. Faherty

Adelphi College Garden City, L. I., New York

MONTANA

COACHING SCHOOL

4

AT MONTANA STATE U.
Missoula, Mont.

\$

July 21-25 Inclusive

1

Enjoy: Trout fishing, hiking, herseback riding, and outdoor recreation in the heart of the cool Rockies.

INSTRUCTION BY

RAY ELIOT
University of Illinois—Football
CECIL BAKER
Utah State College—Basketball
NASEBY REINHART
Montana State U.—Training

TUITION \$10.00

For room reservations at hotels or motels write to:

CLYDE W. (CAC) HUBBARD

Director of Athletics Montana State University Missoula, Montana

Hyper-Humus ORGANIC CONCENTRATE

Makes the Good Earth Better

Nature's Finest Soil Improver

Makes TOPSOIL Out of SUBSOIL SAVES MONEY Gives Better Turf

When building a new athletic field, you can show a substantial saving by making your own topsoil instead of buying it. And the results will be even more satisfactory, because it is a concentrated organic, imparting more life to the soil.

Write for helpful literature and name of the nearest HYPER-HUMUS dealer or distributor.

HYPER-HUMUS CO. + Box A. Newton, N. J.

after a year of work in South Africa. In 1948 Gordien was relegated to third place in the discus by the Italians, Adolfo Consolini and Giuseppe Tosi. However, the following year Gordien broke Consolini's world record a half dozen times. His farthest throw measured 186 feet, 10% inches, in Hameenlinna, Finland.

C

J

th

W

g

sl

ih:

(4

E

ba

bo

to

th

Bi

lis

SW

R

tic

Sa

Al

for

lir

the

rei

a l

see

fea

he

of

the

tirl

of

Gr

ma

Ge

wil

this

firs

Un

to .

seu

fiel

tear

and

for

Meanwhile, Consolini, a 181-footer, and his shadow, Tosi, a 179-footer, have been throwing as often as possible with no signs of weakening.

In Gordien's absence, Dick Doyle, a Montana student, won the 1951 United States title with a 175-foot throw, but the following month, while in Italy, he lost two straight to Tosi. The United States has five other throwers who will probably be able to take the measure of all but the quartet mentioned above: Vic Frank, a Yale Law School student; Bob Mathias, the Olympic champion and world record holder in the decathlon who has become a top-flight discus thrower; Sam Iness, a high school schoolmate of Mathias at Tulare, California; Jim Dillon, a young Alabaman with great possibilities; and Jim Fuchs, prominent shot put-

At the present time the United States and Italy have the greatest discus throwers. Ference Klics of Hungary throws 167 feet consistently, and while in Moscow got off a 169 foot, 9 inch throw. Veitto Nyqvist of Finland, Ivar Ramstead of Norway, Gunnar Huseby of Iceland, Josef Hipp of Germany, and Heino Lipp of Russia are also steady 160-footers. The chief exponent of the discus throw in Greece is still Nicolas Syllas who placed in the 1936 Games in Berlin.

A prediction: 1. Iness (U.S.A.); 2. Consolini (Italy); 3. Tosi (Italy); 4. Gordien (U.S.A.); 5. Doyle (U.S.A.); 6. Klics (Hungary).

Hop, Step and Jump

The first finale on Wednesday afternoon's program, the hop, step and jump, is a lost art in the United States. It was lost about 35 years ago and has never been re-discovered. As a result, the American boys will do well to place among the top twenty hop, step and jumpers at Helsinki.

Last fall a new world record in the event was produced in Rio de Janeiro when a 24-year old Brazilian, Adhemar Ferreira da Silva, jumped 52 feet, 63% inches which was just 3% of an inch better than the Olympic record and the previous world mark set by Japan's Naoto Tajima in the Berlin Olympics in 1936. Also in Rio, a

month later, Helio Coutinho da Silva jumped 52 feet, 2 inches.

rica.

l to

Ital-

eppe

year

rec-

thest

ches,

oter,

oter.

pos-

oyle.

1951 foot

nth.

it to

five

y. be

but

Vic

lent;

pion

de-

ight

high

Tu-

ung

ties:

put-

ited

dis-

Iun-

and

foot.

Fin-

Gun-

lipp Rus-

The

w in

who

rlin.); 2.

; 4.

A.);

af-

and

ited

ago

. As

enty

the

eiro

dhe-

feet,

an

cord

t by

rlin

), a

NAL

ci.

g.

If either one of these South Americans does not win the top spot in the hop at Helsinki, his failure should be blamed on the climate. The stiffest competition will come from the short Japanese who have always excelled in this tall man's event. Japan, although by no means back to its prewar athletic standards, already has a group of good hop-step performers such as Keizo Hasegawa (51-3); Yoshio Iimuro (50-8); Kichigoro Fujihashi (49-5); Mankichiro Kawano (49-8); Itsuji Yamada (49-5); Arao Maedo (49-11); A. Nishimura (49-6); and A. Nakayama (49-5).

It is in this event that the Russians might take their first gold medal, since European champion, Leonid Shcherbakov at 51-8, and Boris Zambrimborts at 51-4 are both good competitors, and will be more accustomed to the terrain and climate. Australia's Brian Oliver (51-2) will be the English-speaking favorite. Arne Ahman of Sweden, and 1948 Olympic winner, Reino Hiltunen and Valdemar Rautio of Finland, and Turkey's Ruhi Sarialp could break into the scoring.

In this event the United States will probably enter two 48-footers, Bill Albans, versatile Occidental undergraduate, and Gaylord Bryan, Stanford graduate student.

Our choices: 1. A. da Silva (Brazil); 2. H. da Silva (Brazil); 3. Hasegawa (Japan); 4. Shcherbakov (Russia); 5. Iimuro (Japan); 6. Oliver (Australia).

200 Meter Dash

In the final of the 200-meter dash the world's speediest will be able to renew their 100-meter feuding over a longer course.

Britain's McDonald Bailey, who seems to be reaching his peak in his thirties, will again be the man to defeat. If Stanfield is in top condition, he might be the winner. Sukharyev of Russia; Britain's Brian Shenton, the holder of the European 200-meter title; Peter Kraus and Werner Zandt of Germany; and Australia's de Gruchy should not be far back. Jamaica's wonderful quarter-milers, George Rhoden and Herb McKenley, will probably add interest to this race.

The three American entrants in this event, as in all others, will be the first three finishers in the Final United States Olympic Tryout Meet to be held in the Los Angeles Coliseum, June 27 and 28.

These three might well be Stanfield, Art Bragg, who is Rhoden's teammate at Morgan State College, and Charley Thomas, a big, power-



SAND FOOTBALL CLOTHING

• Special knit construction

· Elastic · Tough · Lightweight

850A DELUXE JERSEY

A new improved lightweight DuPont Nylon jersey with runproof backing made on specially constructed 22 needle machines, an exclusive in the athletic clothing industry. This deluxe jersey surpasses all others for body-hugging elasticity because of its unusually fine stitch. A real bear for wear, not a "tear-off" jersey, yet weighs only 10½ oz. complete with numerals. Truly the finest knit jersey on the market! Available in all styles and sleeve stripes.

33C RIBETT-WONDER KNIT PANTS

Hugs the body like skin and the clasticity is all in the knit, made of reinforced DuPont Nylon with no rubber yarns at all. The greatest improvement since the 2-way stretch fabric! Ribett-knit — outstanding for rugged wear and laundering. Features hanging thigh guard pockets, zipper front and reversible knee pad pockets. All school colors.

For free illustrated catalog write to:

SAND KNITTING MILLS CO.

OHIO FOOTBALL COACHING SCHOOL

AND ALL-STAR GAME AKRON, OHIO, AUG. 12-16

Game 8:30 P.M. Aug. 16
7th annual coaching school and game sponsored by
Ohio Football Coaches Assn.

Coverage of the split T, single wing, and spread formations. Special attention paid to various defenses.

RUSTY RUSSEU.—S.M.U. Spread Formation

IVY WILLIAMSON—Wisconsin Defense

RIP ENGLE—Penn State
Punting and Defense
RED DAWSON—Pittsburgh
Single Wing
SID GILLMAN—Cincinnati

Split T
WOODY HAYES—Ohio State

Screen Pass and Defense
OTIS DOUGLAS—Arkansas

Split T
NORTH-SOUTH ALL-STAR FOOTBALL GAME
Ohio's finest fifty facing each other in a contest featuring the single wing against the T.
All these boys graduate from high school
this June.

For registration or information write: BOB HARPER

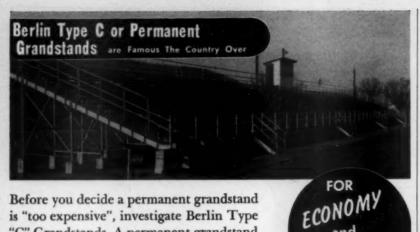
Board of Education

Akron, Ohio



Eliminate guess work and inaccurate scering with the NADEN ELECTRIC SCOREBOARDS. Compact, efficient and easily maintained a NADEN BOARD with instant-vue numerals offers absolute control. NADEN'S effer a variety of models designed to "fit" your field. Available with dial or numeral timing.





Before you decide a permanent grandstand is "too expensive", investigate Berlin Type "C" Grandstands. A permanent grandstand is the safest of all outdoor seating arrangements. Economy is effected by simplified design and complete fabrication in one of Wisconsin's largest and most complete fabrication plants . . . no field welding or material cutting necessary.



The Twenty-Fourth Annual

INDIANA BASKETBALL

COACHING SCHOOL

Berlin Chapman Company also manufacture:

DESIGN

EZ-A-WAY Bleachers, which when re-essed sermit maximum floor space for other school activities and are designed and engineered for ease in operation. Berlin Type "C" Permanent Grand-tands are famous for their economical leating. Write for details and location of existing stands.

Our Engineering Department is availa-ble to aid you in any local problem.

BERLIN, WISCONSIN

Start! Start! Stop!

Kokomo, Ind. August 14-16 The Most Complete Basketball

School in the Nation

THE STAFF

BRUCE DRAKE Univ. of Okla. EVERETT N. CASE .. N. C. State Coll. MAX DOUGLAS ... Newark, Ohio, H. S. ED KELLOW .. **Public Relations** JOE PLATT Kokomo, Ind., H. S. FRANK McGRATH....DePaul Acad., Chicago

Movies of 1952 N.I.T. and N.C.A.A. championship games

Tuition: \$10.00

For full particulars write: CLIFF WELLS

Tulane University New Orleans.

Speed - Safety for Your Gym Floors DOLCOROCK

The faster the game, the more frequent the sudden stops and starts. With DOL-COROCK floor surfacing, your players can "pivot on a dime" and take off again instantly — safe from dangerous slip and slide. DOLCOROCK's high coefficient of friction provides this combination of speed with safety - gives confidence to players and more enjoyment to spectators DOLCOROCK is a lustrous, eye-appealing

finish, correct for hardwood, cement or magnesite. It's like a layer of clear quartz, standing up under the hardest gym use. Virtually impervious to grease, dirt, ordinary acids and alkalies . . . economical to maintain. For an attractive, "fast" and SAFE gym floor, choose DOLCOROCK! Write for booklet "Floor Maintenance" containing detailed facts on DOLCOROCK



ful University of Texas sophomore. For that matter it might be Walt Mcof Glendale, California, Kibben George Brown, the peerless broad jumper, and Jim Ford of Drake. Or again it might be Ollie Matson of San Francisco, Jim Golliday and Henry Thresher, the Yale prospect who seems to have recovered completely from an attack of polio last summer. Whoever they are, we may expect all three of them to make their way to the final at Helsinki through three rounds of preliminary races.

wit est

or

for

in

lar

ari

D

Di

Ca

to

Bo

ate

an

Co

thi

lik

bu

thi

in

no

bel

da

Yu

ma SOV

bei

Par

ter

in

ica

en

der

Un

Ma

Cou

Stal

Buc

Infe

Dir

Stre

Ma

Cou

du

tion gan

and

Infe

requ a n

for

We suggest the following finishing order: 1. Stanfield (U.S.A.); 2. McDon-ald Bailey (Great Britain;) 3. Rhoden (Iamaica); 4. Thomas (U.S.A.); 5. Ford (U.S.A.); 6. Kraus (Germany).

Igyelin Throw

But the highlight of the afternoon for the 60,000 spectators in the Olympic Stadium will not be the blazing 200-meter final; it will be a succession of throws in the final rounds of the javelin. For the past 40 years the Finns have led the world in this event, but now their supremacy is being threatened. A broad-shouldered young physicist from San Diego, California, Franklin (Bud) Held, has them worried.

Last summer in Stockholm Bud threw the javelin 249 feet, 81/2 inches to beat Scandinavia's best which included Per Berglund and Ragnar Ericzon of Sweden, Soini Nikkinen of Finland and Hans Moks, a refugee from Estonia who now lives in Sweden. This was the world's longest competitive throw since the beginning of World War II and has been surpassed by only three men in history.

Since Held improved 16 feet last year it is not inconceivable that he could add another 16 feet this year, and thus erase the Finns' names from the javelin world mark for the first time in almost 40 years. It would also make him the first Olympic javelin champion from the United States.

However, the Finns will not go down easily, particularly in front of their friends and neighbors in Helsinki. Nikkinen got off an equally impressive throw of 249 feet, 1 inch a few weeks later which would indicate that he is Held's No. 1 challenger. Berglund with a best of 246 feet, 10 inches and Ericzon at 242 feet, 6 inches will be the Swedish contenders. Finland will counter with Nikkinen; Toivio Hyytiainen, the European champion and a 240-footer; and Kaj Tapio Rautavaara, a 238-footer and Finnish movie actor who won the title at London in 1948.

Contenders from the United States will probably come from among: Held; Bill Miller, the Marine recruit whose 237 foot, 10 inch toss last year established a national collegiate record; Cy Young, a big Modesto, California boy who had a 241 foot, 11 inch throw last spring; Ralph Roy-lance, a little fellow with a mighty arm from a farm near Smithfield, Utah, who has done 233 feet, 6 inches; Dr. Steve Seymour, the Long Beach, California physician who was second to Rautavaara in 1948; Midshipman Bob Allison who may win the collegiate javelin title for the Naval Academy this spring; and Chuck Missfeldt and George Raseme, a pair of West Coast collegians. Never before have we had so many excellent javelin throwers.

ore. Mc-

rnia.

road

. Or

n of Hen-

who etely mer.

t all

v to hree

hing

Don-

oden

; 5.

any).

noon

lym-

zing

ssion

the the

this

cy is lered

Cali-

has

Bud

ches

n in-

gnar

inen ugee

Swe-

com-

ning

surtory.

last

t he

year,

from

first

also

velin

t go

nt of

Hel-

ually

inch

indi-

leng-

feet,

et, 6

ders.

inen;

pean

Kaj

and

the

RNAL

es.

Mystery man in the competition is likely to be the fabulous Viktor Tsibulenko of Russia, who was reported to have gotten off a 240 foot, 8 inch throw in the snow and ice at Jassy in November of 1950, but who has not approached that mark in more believable surroundings since that date. Others in the Soviet group are Yuriy Shcherbakov and Harri Valman at 235 feet, and Sergey Kuznetsov and Viktor Iyevlev, 225 feet.

Argentina's improving Ricardo Heber bested Dr. Seymour to win the Pan-American Games title last winter, but appears to be out of his class in the Olympics.

Our prediction is for an American win: 1. Held (U.S.A.); 2. Nikkinen (Finland); 3. Hyytiainen (Finland); 4. Miller (U.S.A.); 5. Berglund (Sweden); 6. Rautavaara (Finland).

(To be concluded in June)

WISCONSIN H.S. COACHES ASSN

University of Wisconsin Madison, Wisconsin Aug. 18-22 Courses-Football, basketball, track, baseball, and wrestling.

Staff—Charlie Caldwell, Ivy Williamson, and Bud Foster. Others to be announced. Information—Tuition \$5.00 for members;

\$10.00 for others. Director—Harold A. Metzen, 1809 Madison

Street, Madison, Wisconsin. See advertisement page 53

WISCONSIN, UNIV. OF

Madison, Wisconsin June 30-Aug. 22 Courses—Coaching problems in various sports, elementary and secondary physical education, methods and curriculum, conditioning and health education, recreation, organization and administration, measurement ind research studies.

and research studies.

Information—Request graduate catalog for requirements for graduate work leading to a master's degree. For additional information write the director.

Director—Director of Summer Session, University of Wisconsin, Madison, Wisconsin.

See advertisement page 77 March issue



Lowest Cost-Per-Year Towels Your School Can Buy

Yes, full sized (20" x 40" shrunk) McArthur Super-Gym and Super-Turk towels have a long life of 350 to 500 launderings and uses! Woven of long staple, triple-twisted two-ply yarns. these famous school towels are your long-term budget aids. . . . Write today for complete information on both McArthur Gym Towels. You may learn of the helpful McArthur towel plan, too.

BARABOO, WIS.

NEW YORK STATE REPRESENTATIVE: Vern Volland, 19 Fairchild Dr., Eggertsville 21, N.Y.

20th Annual

Sponsored by the Texas High **School Coaches Association** FORT WORTH, TEXAS August 4 - August 8

FOOTBALL L. R. "DUTCH" MEYER T.C.U. JIM TATUM . .Maryland T.C.U.

JACK HENNEMIER .Maryland BASKETBALL

.....Oklahoma A. & M. HANK IBA ADOLPH RUPPKentucky TRACK

JACK PATTERSON BASEBALL

ALEX HOOKS . S.M.U.

TRAINING ELMER BROWN .T.C.U.

PUBLIC RELATIONS T.C.U. AMOS MELTON TURF & GRASSES

J. R. WATSON Texas A. & M. ALL-STAR BASKETBALL **GAME-AUGUST 7**

ALL-STAR FOOTBALL **GAME-AUGUST 8** For information write:

L. W. McCONACHIE

2901 Copper St. El Paso, Texas



FF-1S

Un-matched for visibility, attractiveness and dependability.

The most popular scoreboard being made today.

This is the time to order for summer or fall delivery. Send post card for complete information today.

THE FAIR PLAY MFG. CO.

73 Thayer Rd. Des Moines 15, lowa

WILL RUSSIA BEAT THE U.S.?

That's the big question in the 1952 Olympic Games as Russia enters its first complete team in this great sports event. A Russian victory would provide Communism with a powerful propaganda weapon to support its claims about the softness and decay inherent in a democracy such as ours. The Russian Government is financing all costs of her team... the instructions are to win or else!

We can't win with half a team! There is no government subsidy for the United States Olympic Team ... the effectiveness of our 1952 squad is entirely up to you. Because of rising costs your help is needed more than ever to make sure we send a complete and effective team into competition with the 70 other nations to be represented. Just a dollar bill from you and you and you will assure the U.S. of all the things necessary for a winning team.

Yes, for the first time in history, every man, woman and child in the United States has a chance to back up their own Olympic Team... and that backing is sorely needed, NOW! Your dollar goes for transportation, food, lodging, uniforms and equipment. The athletes, coaches, officials, trainers... anyone connected with the Games... serve without pay on a purely voluntary basis.

You Get Special Souvenir Direct From Olympics!

In return for your dollar it has been arranged that a sensational, different kind of Souvenir Postcard will be sent to you, to your son, daughter, or anyone you specify. It will have the autographs of Olympic Team Members, will bear an exclusive, special Finnish Olympic stamp and will be mailed and postmarked from Helsinki, Finland.

That our record of outstanding achievement will not be broken in 1952, we hope every American will really get behind this year's team to assure a U. S. victory. Just attach your contribution to the coupon below.

UNITED STATES OLYMPIC FUND
Netlonal Headquarters, 10 N. LaSelle St., Chicago 2, III.

Gentlemen:
I'm back of you one hundred percent. Here is my \$1.00 to help the U. S. win the 1952 Olympics. And don't forget to put me down for that special Olympic souvenir postcard.

Name
Address
City
State
(If card is to be mailed to someone else please print their name and address below)

LARGER DONATIONS WILL BE GRATEFULLY ACCEPTED
(Can Be Deducted From Federal Income Tax)

HERE'S HOW I WANT POSTCARD ADDRESSED

Four-Man Line

(Continued from page 16)

ning threat, the passes will work with greater consistency. The running plays shown previously will cause the linemen to temper their rushes with caution, and this prudence will give the passer a fraction of a second longer to choose his receiver.

Diagram 8 shows a pass play in which the ball comes straight back to the tailback. This play resembles the buck up the middle which is shown in Diagram 2. The two backs form a pocket from which the tailback may throw a quick pass. Since the secondary is outnumbered, someone should be open to take the pass.

A running pass may be used off the plays shown in Diagrams 5 and 6.

In the play shown in Diagram 9, the center goes out as a delayed receiver and invariably is open. The end and halfback fake blocks on the secondary and then break for the pass.

These plays have worked to our advantage in instances where all four linemen rushed, or, in cases where some rushed and others waited or slid along the line of scrimmage. The reason for our success in the use of these plays may be attributed to having our players go between the defensive linemen, while the blockers merely kept them out of the hole or away from the point of attack.

In attacking the four-man line it is necessary for a team to be able to run against it, and to pass. Often the difficulty of penetrating the fourman defensive line setup is created by making the error of passing first.

fe

0

fı

to

p

In

sp

st

in

CC

de

do

le

A successful running attack helps the team psychologically. The fourman line is designed primarily to withstand a running attack. When the boys on the defensive team realize they are unable to stop the offense their confidence becomes badly shaken. On the other hand, the morale and assurance of a squad is greatly increased by the knowledge that they possess definite tools to compete against this bugbear of defensive alignment.

COLBY COLLEGE

COACHING SCHOOL
Waterville, Me. June 19-20-21
Football—JAMES M. TATUM (Maryland)
Basketball—EDGAR HICKEY (St. Louis. Univ.)
Tuition—\$17.50

Write. E. W. Millett, Director × 477 Waterville, Me.

Spring Football

(Continued from page 18)

out for track when spring football stopped. Now we have lost touch with the boys during the spring."

with

nning

se the

with give

long-

ay in

back

mbles

ich is

backs

e tail-

Since

some-

d off

and 6. am 9.

ed re-

The

n the

r the

e all

cases

vaited

mage.

n the

buted n the

ockers

ole or

ine it

able

Often

foured by

helps

four-

ly to When

reane of-

badly

mor-

great-

that

com-

ensive

0-21

Univ.)

, Me.

IRNAL

(ibr

st.

In order to show that there are a certain number of conflicting opinions in this regard, we quote from a coach whose conference has not permitted spring practice since 1934. "Our spring sports program for the past 18 years has been a lot better."

However, out of a total of 8,667 on the football squads it will be seen that only 4,366 or 50 per cent went out for spring sports who would not have formerly done so. The next question was obvious, and that was to determine whether the schools had started any other sports to fill the void. Here we see some improvement being made with 16 per cent of the schools adding one or more spring sports to their programs. An additional school will add track, tennis, and golf for the 1953 season. Two-thirds of the number of schools adding sports added one sport, while the remaining one-third added two sports. Baseball was new in nine schools, golf in eight, tennis in six, track in three, and tumbling in one.

The schools that did not add new sports were then asked what the members of the football squad who were not out for spring sports were doing in the way of athletics. Sixty-one per cent of the coaches answering this question did so by stating "nothing" or words to that effect. Nineteen per cent indicated the boys were receiving their athletics through physical education classes or intramurals. Eleven per cent indicated that those not out for spring sports were working either on the farms or in industrial plants. The other answers ranged from wrestling, spring basketball, and calisthenics to chasing girls.

Finally, we have a report on the number of the coaches favoring and opposing the return of spring the practice. In opposition to the return of spring the practice were 57 per cent of the coaches.

From the study outlined above, we see a definite improvement in participation in the spring sports. In fact, half of the boys who formerly were on the improvement is spring football squad are now out for other spring in sports. There is also an indication that more is schools will expand their spring sports program by its starting new sports; although we feel the progress in this direction in the first year was not as encouraging as it might have been.

On the other hand, the fact that half of the boys before out for spring practice are now not engaging in any form of competitive athletics is indeed most discouraging.

The question then remains, have we in our endeavor to increase participation in spring sports done so at the cost of overall participation in athletics?

COACHES READY REFERENCE SERVICE COUPON

MAY, 1952

As a service to our readers and for their convenience
we list here the advertisers appearing in this issue. Many
of the concerns offer free booklets and coaching aids.
Simply cut along the perforated rule and mail to:

Service Department ATHLETIC JOURNAL 6856 Glenwood, Chicago 26, Ill.

COMPLETE LINE

MacGregor Goldsmith, Inc., 19, Rawlings Mfg. Co., Cover 2,	See advertisement Catalog
Spalding & Bros., A. G., 1,	Catalog
	SHOES
Brooks Shoe Mfg. Co., 46,	Free, special catalog of Brooks "BT" models
Riddell, Inc., John T., 21, Spot Bilt, Inc., 31,	☐ Information Riddell football shoes ☐ Information Spot Bilt football shoes
CLOTHIN	IG & LETTERING
Adler Co., 57,	☐ Information
Celco Sportswear, 53,	☐ Information
Champion Knitwear Co., 44,	☐ New 1952 catalog
lodgman Rubber Co., 41,	Free, new complete athletic catalog
Cahn Co., Arthur, 47,	Information Kahnfast fabrics
iand Knitting Mills, 59,	Free, illustrated catalog
TRAIN	ERS SUPPLIES
Chesebrough Mfg. Co., 48,	☐ Information Vaseline Sterile
8 8 W H 50	Petrolatum Dressings Information hinged knee braces, ankle
forn & Bro., Wm. H., 50,	and knee caps
seamless Rubber Co., Cover 3,	☐ Information "Pro-Cap Husky" tape
GYMNASIUM	& FIELD EQUIPMENT
American Playground Device Co., 54,	☐ Information
Semel & Assoc., David, 39,	☐ Information Football Down Marker
Berlin Chapman Co., 60,	☐ Information Berlin Type C or
	permanent grandstands
air Play Mfg. Co., 61,	Complete information
Briswold, Larry, 51,	Descriptive folder. See listing under "Books"
I. & R. Mfg. Co., 49,	Free, booklet
lussey Mfg. Co., 4,	Free, catalogs
Master Lock Co., 52,	☐ Information—Dept. 16
Aedart Products Inc., Fred, 29,	Free, literature
Aorey, Inc., Dick, 43,	☐ Information
laden & Sons, 59,	Free, catalog
lational Sports Equipment Co., 52,	Circular No. 25D
lissen Trampoline Co., 42,	Free, literature
erfo Mat & Rubber Co., 57,	Information
idlinger Products, 56,	Free, literature See listing under "Films"
. S. Steel Co., 5,	C and usual ander turns
	IG EQUIPMENT
rouse-Hinds Co., 25,	☐ Information
BASEBA	LL EQUIPMENT

TOWELS

McArthur & Sons, George, 61, 🔲 Information McArthur school towel plan

Hillerich & Bradsby Co., 55,

□ "Famous Slugger Year Book," 5 cents
 □ "Softball Rule Book," 10 cents

FLO	OOR FINISHES	INDEX TO ADVEDTICEDS
Dolge Co., C. B., 60, Hillyard Sales Co., 45,	Free booklet, "Floor Maintenance"	INDEX TO ADVERTISERS
Huntington Laboratories, Inc., 2		Adelphi College Coaching School
DEC.		American Bridge Division
Ivory System, Cover 4,	ONDITIONERS Add name to "Observer" list	American Playground Device Co
Raleigh Athletic Equipment	Information	Bernel & Assoc., David
Corp., 3,		Berlin Chapman Co
TUI	RF PRODUCTS	Castello Fencing Equipment Co., Inc
Gulf Oil Corp., 37,	☐ Free booklet, "Gulf Sani-Sail Set"	Celco Sportswear
Hyper Humus Co., 58,,	Free, literature	Champion Knitwear Co
Soilaire Industries, 56, West Point Lawn Products, 49,	☐ Free, bulletin ☐ Information on the "Aerifier"	Champion Kintwear Co
A STATE OF THE PARTY OF THE PAR		Colby College Coaching School
	JBBER BALLS	Colorado High School Coaches Assn. Coaching School56
Pennsylvania Rubber Co., 27,	☐ Information "Pennbilt" line rubber covered balls	Crouse-Hinds Co
Voit Rubber Corp., 35,	☐ Information Voit rubber covered balls	Dolge Co., C. B
TENINI	C EQUIDMENT	Dunlop Tire & Rubber Corp
	S EQUIPMENT 7, Free booklet, "How to Improve Your	Fair Play Mfg. Co
Dumop lire a Rubber Corp., 4	Tennis Game," Vinnie Richards	Griswold, Larry51
FENCE	NO FOURMENT	Gilf Oil Corp
	NG EQUIPMENT	H. & R. Mfg. Co
Castello Fencing Equipment Co., Inc., 49,	☐ Information	Hillerich & Bradsby Co
20, 110, 17,	FILMS	Hillyard Sales Co
U. S. Steel Co., 5,	Film, "Building for the Nations" avail-	Hodgman Rubber Co
	able without charge to schools on	Horn & Bro., Wm. H
	request	. Huntington Laboratories, Inc
COAC	HING SCHOOLS	Hussey Mfg. Co
Adelphi College Coaching	☐ Information	Hyper Humus Co
School, 58, Colby College Coaching	☐ Information	Indiana Basketball Coaching School
School, 62,		l Ivory System
Colorado High School Coaches Assn. Coaching School, 56,	Information	Kahn Co., Arthur
Indiana Basketball Coaching	☐ Information	Kentucky, University of, Coaching School
School, 60, Kentucky, University of,	☐ Information	McArthur & Sons, George61
Coaching School, 52,		McGraw Hill Book Co
Montana, University of, Coaching School, 58,	☐ Information	MacGregor Goldsmith, Inc
New York State	☐ Information	Medart Products Inc., Fred
Coaching School, 54,		Montana, University of, Coaching School
Ohio Football Coaching School, 59,	☐ Information	Morey Inc., Dick
River Falls Coaching School, 51		Naden & Sons
South Carolina Coaches Assn. Coaching School, 47,	☐ Information	National Sports Equipment Co
Texas High School Coaches	☐ Information	New York State Coaching School54
Assn. Coaching School, 61,		Nissen Trampoline Co
Utah Coaches Assn. Coaching School, 57,	☐ Information	Ohio Football Coaching School
Virginia State College	Information	Pennsylvania Rubber Co
Coaching School, 55, Wisconsin High School Coaches	□ Information	Perfo Mat & Rubber Co., Inc
Assn. Coaching School, 53,	_ information	Raleigh Athletic Equipment Corp
	BOOKS	Rawlings Mfg. Co
18-1	BOOKS	Riddell, Inc., John T
(Enclose mo	ney where required)	River Falls Coaching School
Griswold, Larry, 51,	"Trampoline Tumbling," \$3.75	Sand Knitting Mills59
McGraw Hill Book Co., 51,	"A Player's Guide to Better Punting, Place Kicking and Drop Kicking," Ken	Seamless Rubber Co
	Strong and Emil Brodbeck, \$3.25	Sidlinger Products56
	Wrestling," Harold E. Kenney and	Soilaire Industries56
	Glenn C. Law, \$3.00 Information "Fundamentals of Track	South Carolina Coaches Assn. Coaching School
	and Field Coaching," Richard I. Miller	Spalding & Bros., Inc., A. G
	Swimming," John A. Torney, Jr., \$4.00	Spot Bilt, Inc31
Coupon will not be honor	ed unless position is stated.	Texas High School Coaches Assn. Coaching School
		J U. S. Steel Co
NAME	POSITION	Utah Coaches Assn. Coaching School
		Virginia State College Coaching School
SCHOOL	***************************************	Voit Rubber Corp
CITY	ZONE STATE	West Point Lawn Products
	4 19 19 19 19 19 19 19 19 19 19 19 19 19	Wisconsin ringii School Conciles Assn. Conciling School55

NOW-

....57

....48

....56

....47

....41

....23

....58

....60

Cover 4

....47

....29

....43

....59

....27

Cover 2

Cover 3

....31

....49

A NEW LIGHTWEIGHT ATHLETIC TAPE JOINS PRO-CAP REGULAR



Pro-Cap Husky — Featuring the Same Non-Irritant Mass on a Rugged Lightweight Backing

• Pro-Cap Husky is the new Seamless Athletic Tape specially made for those taping jobs that do not require the support of a heavyweight tape. And, because we are able to use a lighter textile fabric, we can pass along savings to you.

Little or No Skin Irritation

Seamless Pro-Cap Husky contains the same exclusive adhesive mass — incorporating fatty acid salts—that has made Pro-Cap Regular such an outstanding success. Independent clinical tests prove that Pro-Cap tapes cause little or no skin irritation, minimize itching, stick better.

Trainers Report Savings and Convenience with Seamiess Tapes

"Leaves virtually no sticky deposit." "No more benzine baths for my boys." "Hardly any bothersome cleanup with Pro-Cap Tapes." Trainers know this means faster treatment of athletes... fewer instances of benzine irritation...lower benzine expenses.

Order the athletic tape trainers prefer—Seamless Pro-Cap Husky or Seamless Pro-Cap Regular. Use the right Seamless tape for the right job—and you'll never use ordinary tape again.

FINEST QUALITY SINCE 1877

ATHLETIC GOODS DIVISION

THE SEAMLESS RUBBER EUMPANY

75¹ P²

IN TIME OF NEED LOOK TO THE IVORY SYSTEM

With the new baseball season in full swing, THE IVORY SYSTEM is again offering its annual QUICK SERVICE for all types of baseball equipment, thereby helping to keep your teams at peak efficiency.

For fast, dependable reconditioning of mitts, masks, shin guards, and all types of damaged baseball gear during the season, send it by express to THE IVORY SYSTEM.

And naturally, for a thorough end-of-the-season renovation of your equipment, you should look to THE IVORY SYSTEM—the nation's oldest, largest and foremost reconditioners. We will process your uniforms and store them without charge until next season, protecting them by every possible kind of insurance coverage.

